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SUBSCRIPTION (WITH
DIARY) 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2663.

FEBRUARY 21, 1931.

Vol. CXIV.



BULK QUOTATIONS ON APPLICATION

MEGGESON'S
GLYCERINE AND
BLACKCURRANT
PASTILLES

are unsurpassed for

FLAVOUR, QUALITY AND FINISH

Packed in Handsomely Decorated BUFF and GOLD TINS

2 oz. tins 5/6 per doz. 4 oz. tins 10/6 per doz.
(less 5%)

SODIUM MORRHUATE

5% and 10%

Specially Prepared for the Treatment of
VARICOSE VEINS

Supplied in rubber-capped phials containing 5 cc., 10 cc. and 30 cc.

MAY & BAKER, LTD.

BATTERSEA - - LONDON, S.W.11

Think of Profit in terms of *cash* — not in percentage alone

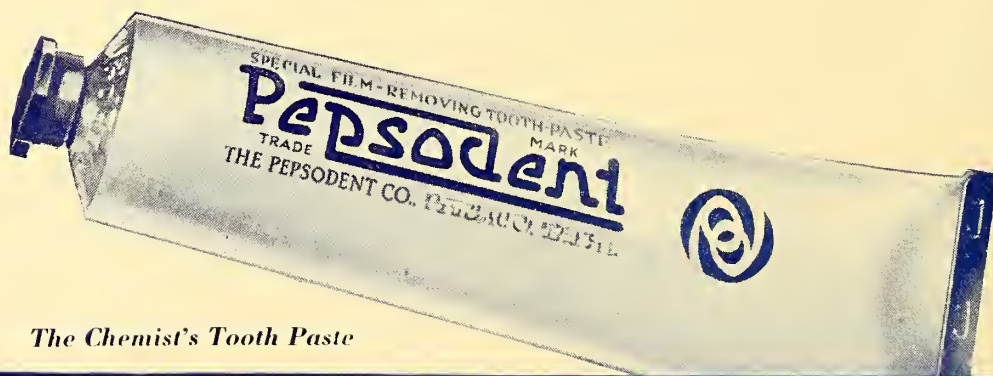
PROFIT mentioned in terms of percentage *alone* can sometimes be misleading. Obviously if you make 50% profit on a line selling for 6d. you gain only 3d. on every sale.

But when you make 38% on Pepsodent Tooth Paste you get a profit of 9d. on every 2/- tube and 5½d. on every 1/3 tube sold.

Pepsodent Tooth Paste is a rapid seller because it embodies everything necessary for efficient Oral hygiene and is by far the best advertised Tooth Paste.

And your customers come back for more.

That's the difference . . .



The Chemist's Tooth Paste

Push Profitable Lines

Marienbad Anti-Obesity

TABLETS

Show a **PROFIT** of
147%

Each box sold represents a profit of $1\frac{1}{2}$ d., making this line a particularly profitable one. Now that longer dresses are in vogue, a slim figure is essential and Marienbad Tablets should find a place on your counter.



Boxes of 60 tablets **9/6** dozen

Retail **2/-**

Counter and window cards available.

ZOM BRAND Pile Cure

TABLETS

Show a **PROFIT** on cost of
118%

Link up with the newspaper campaign by giving the line a window or counter display. Splendid show material available.

Boxes of 25 **5/6** dozen. Retail **1/-**

FORMAMINT

TABLETS

Show a **PROFIT** on cost of
131%

Many Sore Throat Remedies on the market are sold at a very small percentage of profit to the Chemist. Recommend Formamints to your customers and sell a really profitable remedy.

Bottles of 50 **6/6** dozen

Retail **1/3**

ARTHUR H. COX & CO. LTD
Manufacturing Chemists
BRIGHTON ENGLAND

Bringing Customers to

YOUR Pharmacy!



.. BE PROUD OF YOUR HANDS

use **HINDS HONEY & ALMOND CREAM**



KEEP YOUR HANDS YOUNG WITH HINDS HONEY & ALMOND CREAM



DESIRÉE ELLINGER tells us that **HINDS CREAM** IS EXCELLENT FOR HANDS AND ARMS



YOUR HANDS CAN BE ENVIED AND ADMIRER

use **HINDS HONEY & ALMOND CREAM**



LOVELY TO WATCH A WOMAN'S BUSY HANDS

HINDS HONEY & ALMOND CREAM

Send for this new counter card and link up with this powerful campaign. Buy direct on the best terms and make 40% profit on HINDS CREAM sales.

This is how we are bringing customers to you for HINDS CREAM. 40 million of these advertisements will circulate to every district during March.

HINDS Honey & Almond CREAM

Best for Chapped Hands

NOW! ALMOST TWICE AS MUCH FOR THE SAME PRICE

12

LARGE SIZE REDUCED TO 24

6" Handbag size enlarged



LYSOL LIMITED, LONDON, S.W.20

From Every Point of View

HOWEVER you look at it, selling Euthymol Tooth Paste is well worth while for any chemist. Euthymol is a good product, prepared from the finest materials and having over 30 years' experience of tooth paste manufacture behind it. It is standardised to a definite germicidal power. It receives the wholehearted recommendation of many influential members of the dental profession. It is constantly recommended by a wide circle of habitual users. Moreover, it has been sanely and honestly advertised in the national press for many years, and every advertisement directs the customer to a chemist. Euthymol shows a good profit, particularly for chemists who are prepared to co-operate with us. Send for particulars.

PARKE, DAVIS & CO.
50 Beak St., London, W.1
Inc. U.S.A., Liability Ltd.
LABORATORIES: HOUNSLOW,
Nr. LONDON

A
SCIENTIFIC
TOILET
PREPARATION

Euthymol
TOOTH PASTE

SPRING IS COMING

NOW is the time to push

CORN CURES

POPPY CORN SILK

POPPY CORN STRAPS

POPPY CORN SPOTS

POPPY CORN PAINT

**ATTRACTIVE SHOWCARD DISPLAY
WITH ORDERS FOR 1 GROSS ASSORTED**

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LONDON

Gt. Sutton St.

LEEDS

Queen St.

BRADFORD

1252 Leeds Road

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Your customers have read this advertisement

They will read others too, very soon.

They will want supplies of Kay's.

Have you replenished your stock?

Keep Kay's on your counter and

Kay's will keep on making money

for you.

Order now from your Wholesaler or

direct from

KAY BROTHERS LTD., STOCKPORT

My Sore Throat?
Kay's
put that
right



KAY'S for coughs
COMPOUND ESSENCE OF LINSEED

"I was quite hoarse in the morning, but I took a good dose of Kay's before I left home, and by evening my throat was easy and clear again. Kay's is a marvellous remedy. Whenever I start a smelly nose or a cough, Kay's puts me right in no time. Mother was brought up to use it, you see. And look at her—a picture of health."

"A proved remedy for Adults & Children."—Established 70 years from all chemists, 1/2, 3/-, 5/- per bottle

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CHEMISTS ONLY

SHOW STAND FREE

Jaytee's
HUILE d'OLIVE

JAYTEE'S
PURE
OLIVE OIL*Huile d'Olive de Provence*Specially prepared for
Salads and Medicinal UseIN REPUTED $\frac{1}{2}$, $\frac{1}{4}$ AND 1 PINTS AND
IN 1 QUART.6/-, 9/-, 16/-, 29/- per doz. respectively
5/9, 8/9, 15/3, 27/6 6 dozen lots

Retail prices 9d., 1/3, 2/3, 4/- per bottle

The show stand sent gratis to all our
Customers. Send a postcard to-day

JOHN THOMPSON

(Wholesale Druggists 1921)

Ltd.

LIVERPOOL

Phone: Royal 1434.

Wires: "Drugs, L'pool."



A GLAXO BABY

Glaxo merits the interest of the chemist all the world over because it is the most nearly perfect food for the infant that has to be fed on an artificial food.

All the defects inherent in raw or modified cows' milk are overcome in Glaxo. It is a fully humanised and perfectly balanced milk-food containing added vitamin D.

PRODUCTS OF THE GLAXO LABORATORIES

Ostelin Vitamin D Preparations

Ostelin Liquid
Ostelin Tablets
Ostelin with Parathyroid Tablets
Ostomalt
Ostelin Emulsion
Colloidal Calcium with Ostelin Ampoules
Osnol
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Ordinary Glaxo
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Glaxo Malted Food
Glax-ovo
Ostermilk

Antivirus Treatment

Antivirus :
Staphylococcus
Streptococcus
Staphylococcus and Streptococcus mixed

Ergot Preparation Erbolin

Vitamin A Preparation
Adexolin (Vitamins A and D)
Capsules

Maltine Preparations

Maltine Plain
Maltine with Pepsin and Pancreatin
Maltine with Cascara Sagrada
Maltine with Creosote
Maltine with Cod-liver Oil
Malto-Yerbine

BUILDS BONNIE BABIES

The Glaxo Laboratories
56 Osnaburgh Street
LONDON, N.W.1

Roboleine

THE FOOD THAT BUILDS THE BODY

FROM FEBRUARY 1st, 1931

SPECIAL TRADE DISCOUNTS will be allowed **ON ALL DIRECT ORDERS** as under—

5%	off invoice on	£3	orders	} carriage paid
7½%	"	£5	"	
10%	"	£10	"	

OPPENHEIMER SON & Co., Ltd. *Handforth Laboratories,* Clapham Road, LONDON, S.W.9

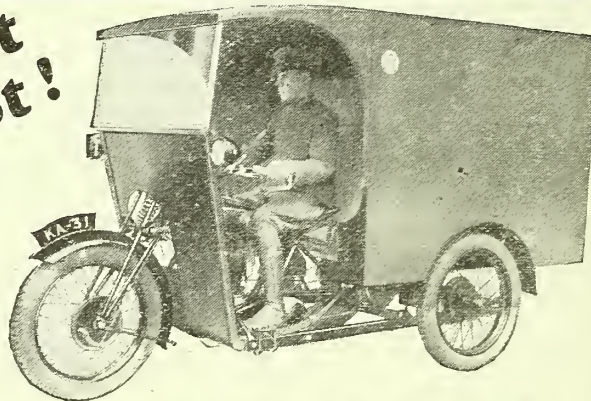
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**Motor Van
efficiency
much lower
at cost!**

This entirely new delivery van gives you all the advantage of a 4-wheel vehicle, yet in initial price, tax, insurance, fuel consumption and every other item is far and away cheaper. Long research and rigorous testing have proved it the most economical, rapid and reliable delivery method. With carrying capacity of 5 cwt., the body is larger than that of any other vehicle taking a similar load. Stable and easy to control (can be driven by a boy of 16); it turns in practically its own length and is nippy and speedy in traffic. Fitted with powerful air-cooled engine, differential rear axle, 3-speed and reverse gear-box, electric lighting, etc., it is backed by the Raleigh reputation for reliability, which reduces maintenance costs to the very minimum.

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12 monthly
payments of
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Tax £4 p.a.
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Special bodies to suit individual requirements. Send for full details and arrange a demonstration.

THE RALEIGH CYCLE CO., LTD., NOTTINGHAM.

Worth
£'s £'s £'s £'s £'s
to every
PHARMACIST
in
GREAT BRITAIN
Moorland
BRAND
Indigestion
Tablets

The more you display them
—the more you will SELL

So fix up your window show To-day—NOW!

W. B. CARTWRIGHT LTD. RAWDON LEEDS

Southalls Towels
have been a habit
with British women
for three generations

The "ORIGINAL"

The most popular.

The "CELTEX"

(Soluble) for easy disposal.

The "K"

All wool with knitted cover.

From 6d. to 3/6 packet

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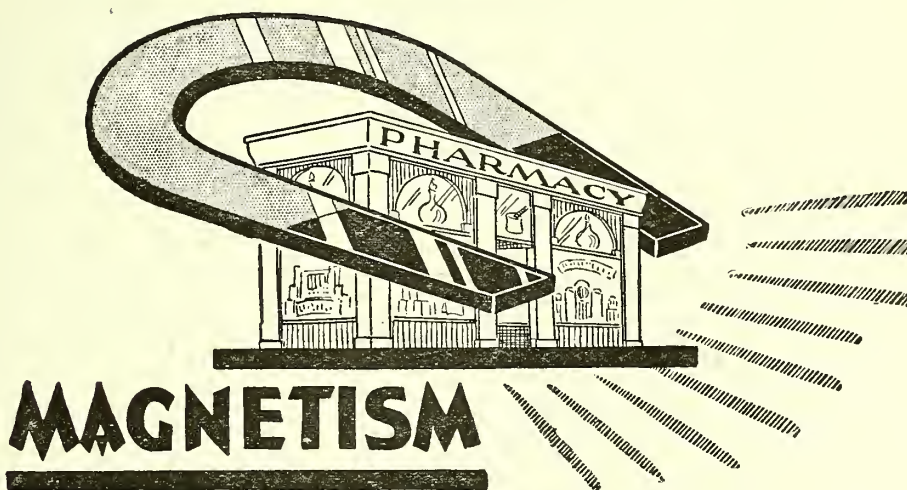
Regd.

They yield good profit. They sell in all seasons.

THEY ARE BRITISH MADE

THROUGH YOUR WHOLESALE HOUSE

Maw's Page



Is your pharmacy a business magnet? Is it a centre of attraction or merely one of a row of shops? Does it draw customers to your counter and hold them there? Does it pull business away from your outside competitors?

Your pharmacy ought to be outstanding. It ought to be impossible to pass without noticing it. It ought to reflect your personality and the proper atmosphere of pharmacy. At the same time it ought to show and sell your goods successfully.

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shopfitting technique and, above all, it demands pharmaceutical training. A good ordinary shop may be a bad pharmacy and pharmaceutical shopfitting is a thing apart.

Maw's are truly pharmacy designers and constructors. They have been bred in the pharmaceutical atmosphere, and have grown up with pharmaceutical traditions. A "Maw" pharmacy combines all that is best in pharmacy with all that is best in business. It is a profit maker and a prestige builder. It is a sound investment, a safeguard of future prosperity.

If you are contemplating any fitting work, from the installation of a simple showcase to complete equipment or reconstruction of a pharmacy, consult Maw's. We will help you with suggestions, sketches and estimates of cost.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



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Adeps Benzoatus
 Adrenalin
 Amylopsin
 Beef Juice*
 Carminex
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 Cerebrinin
 Corpus Luteum*
 Diastase (Animal)
 Digestive Ferments
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 Lecithin
 Liver*
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 Mammary
 Mam-Ovarian
 Mam-Placenta
 Meduphites
 Multigland*
 Myelin
 Orchitic
 Ovarian*
 Ovarian Residue*
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 Ox Gall
 Pancreas
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 Pituitary Whole Gland*
 " Anterior Lobe*
 " Posterior Lobe*
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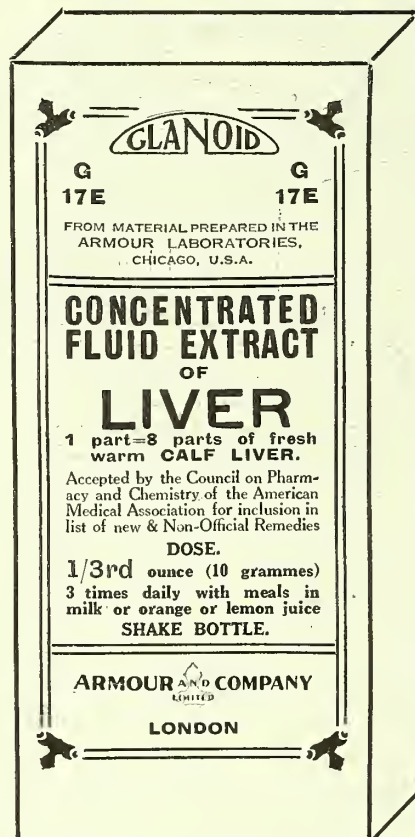
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GLANOID

Concentrated Fluid Extract of LIVER

**PALATABLE
AND
READY
TO
TAKE**

**ALSO
IN
POWDER
AND
TABLETS**



**ONE OUNCE
EQUALS
HALF A POUND
FRESH
CALF LIVER**

4oz. Bottle 7/-
 8 „ „ 12/6
 16 „ „ 24/-
 W.Q. 100/-

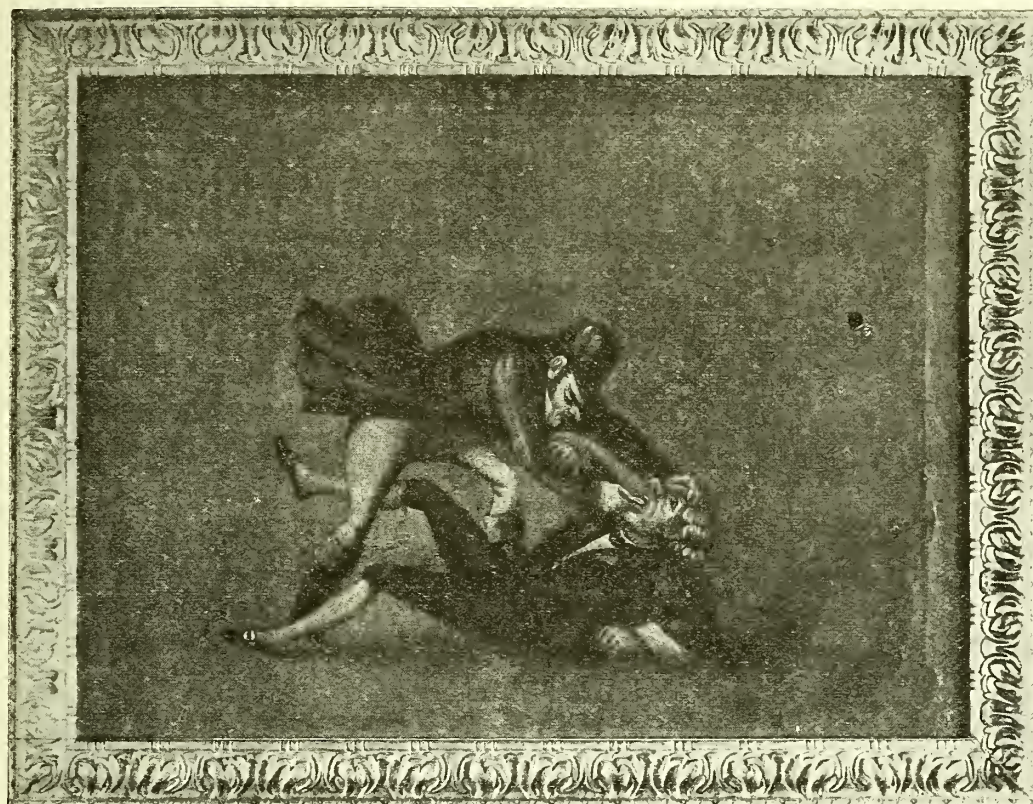
**WE PREPARE A STERILE SOLUTION FOR
INTRAMUSCULAR INJECTION.**

A brochure on "GLANOID" Concentrated Fluid Extract of LIVER in the treatment of Pernicious Anæmia; Sprue, and allied diseases, will be sent to members of the Pharmaceutical Profession on request.

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 LIMITED

**ARMOUR HOUSE, St. MARTIN'S-LE-GRAND,
LONDON, E.C.1.**

TELEGRAMS: "ARMOSATA-CENT," LONDON.
 TELEPHONE: NATIONAL 2424.



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courtesy of the
Wellcome
Historical
Medical Museum

'The Good Old Days'

**Over Half a
Century Ago**

PHENATE of SODA

(WOOLLEY)

**was in use, and
year by year
its sales have
steadily increased**

Retail Price **1/6** **2/9** **4/6**
Packed in - 5 oz. 10 oz. 20 oz.

Write for bonus terms.

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Manufacturing Chemists

VICTORIA BRIDGE, MANCHESTER



EUGENOL. CLOVE OIL. CINNAMON BARK OIL.

White, Tomkins & Courage Ltd.

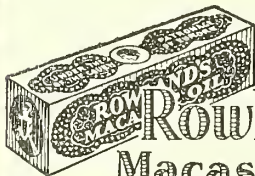
REIGATE



For 137 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.



**Rowland's
Macassar Oil**

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1

RETAIL,

3/6, 7/- & 10/6

P.A.T.A.

Red for dark hair
Golden for fair or grey hair

OVER

This Profit on your outlay is guaranteed to you by

53% !!

The FLEET Blade



*A Sheffield
Product from the
Molten Steel to the
Finished Blade.*

Retails at 3 for 7½d.

Liberal trade-making samples given to new stockists.

Bonus offered for Window Displays.

Sample and terms from sole makers :-

DOMINION STEEL CORPORATION, Ltd.
Fleet Works, Queen's Road, SHEFFIELD.

HELLO! EVERYBODY!



Old Man Wanie speaking—just done 10 days' work, and still 'keen' for more!

Sell WANIE

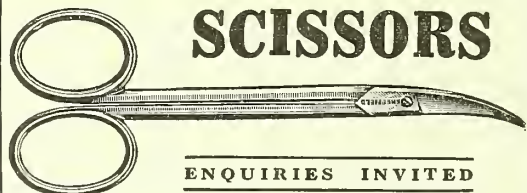
THE BLADE THAT LASTS.

8/- per gross FREE SAMPLE ON REQUEST

Dept. C.D., WANIE DISTRIBUTING CO.

89 Aldgate High Street, E.C.3.

Irish Free State Agents :
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CUTLERY MANUFACTURERS,

Wheeldon Street, SHEFFIELD

**AYRTON'S
PRE-
EMINENT
IN PACKED
GOODS**

THE AYRTON TOUCH

FEBRUARY 21, 1931

**AYRTON'S
for
EVERY-
THING
PHARMA-
CEUTICAL**

IF TRADE IS DEPRESSED

SOME SPECIALS FROM THE LAB.

"MAROTONE" (AYRTON)

A valuable restorative and nutritive tonic, useful in the treatment of General Debility, Anæmia, etc.; and for use during convalescence. Combines, in agreeable form, Red Bone Marrow with Glycerophosphates.

**A tonic everyone needs
after Influenza.**

SYR. COCILLANÆ COMP. (AYRTON)

A valuable expectorant, specially useful in Bronchial Affections. Contains: Cocillana, Euphorbia, Wild Lettuce, Squill, Senega, Ethylmorphine Hydrochlor. Antim. Tart. Dosage on label.

"ROSOTTOS"

A perfect substitute for Otto de Rose. Recommended dilution 5 drops of "Rosottos" to one pint water. Every Chemist is urged to investigate the economy and satisfactory results which accrue from the use of "Rosottos" for counter specialties and toilet preparations.

EXT. CASCARA LIQ. (AYRTON)

Prepared in vacuo from finest bark not less than 3 years old. The liquid extract is further matured before putting into selling stock. Tested and standardised for strength on the extractive. Free from the bitter acrid taste present in most extract of Cascara.

**Prices of all preparations quoted
on notification of quantity
required.**

WHAT WILL ALTER IT?

Ayrton Saunders & Co., Ltd., have just issued a tonic, not a medicinal one, calculated to give a few grains of new power and confidence to any who may feel that present industrial circumstances are over-powering.

Ayrtons are nicely busy, successfully propagating pharmacy and perhaps their outlook can help you.

TAKE YOUR COPY OF THE AYRTON TOUCH,—

read it—we hope you enjoy it—and then post on your orders signifying that you also are progressive in spite of the conspiracy of depression.

If you have not had a copy, one awaits your request written on a halfpenny postcard. Post it without a stamp if you are that much depressed by your own outlook.

**The little more,
that is so much,
is what they call,
The "AYRTON TOUCH."**

**AYRTON
SAUNDERS
& CO., LTD.
LIVERPOOL**

COUNTER GOODS WHICH COUNTERACT BAD TRADE

"MAROTONE"

See notice in first column. Packed as a counter speciality for use after Influenza.

	s.	d.
4 oz.	12	0
8 oz.	21	0
16 oz.	36	0

"MULSOMAG"

A combination of Cream of Magnesia and Medicinal Paraffin. Neutralises acid in the stomach and permits the Liq. Paraffin to combine with the stomach contents.

	s.	d.
8 oz.	13	6
16 oz.	21	0

AYRTON'S TASTELESS CASTOR OIL

A really tasteless and odourless Oil, prepared under new processes. Because black has been white so long, it has taken time to convince even the Chemist that such a result is possible. Doctors praise it highly and prescribe freely. The demand grows wherever introduced. Finely presented for the counter with show material.

	Fixed	Retail.	Per doz.
	s.	d.	s. d.
2 oz.	0	8	5 0
4 oz.	1	0	7 0
8 oz.	1	6	10 0
16 oz.	2	6	18 0

LYSOL—AYRTON'S

Made in our Liverpool laboratories. 50 per cent. Cresols. Perfectly miscible with water.

(Prices for bulk quantities on application)
Neatly wrapped and tied, without measure. Nicest pack on the market.

		per doz.		per gross	
		s.	d.	s.	d.
4 oz.	... ..	4	0	3	6
8 oz.	... ..	7	0	6	6
16 oz.	... ..	12	6	11	6
32 oz.	... ..	24	0	23	0

or Cartoned in 4 colour design, with graduated measure enclosed. Prices on application.

Goods well displayed are half sold !

—especially so when the lines are such seasonable ones as Sulphur and Orange, Peppermint, or Cinnamon Tablets.

BUTTONS

Trade Mark

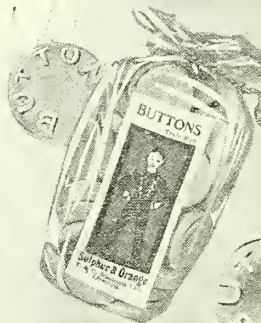
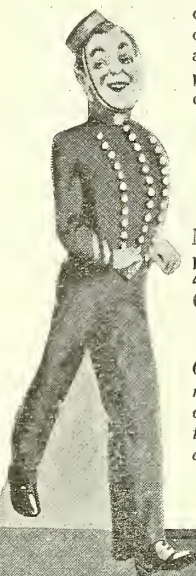
are goods of quality distinctively packed—with a really useful sales-aid in the shape of a new style display stand as illustrated.

Gets right away from the old-fashioned methods of marketing these lines. Saves time in wrapping odd ounces. Your customers will help themselves and keep your till busy. Your outlay is small, profits generous and sales amazingly good. You can order an assortment of the three lines—

**SULPHUR AND ORANGE
PEPPERMINT
CINNAMON**

Minimum Retail 6d.
per bag. Wholesale
4/- doz. 45/- gross.
Carr. paid on gross
lots assorted.

*Order a supply
now and secure
one or more of
these unique
display stands.*



BUTTONS
TRADE MARK
PEPPERMINT

ALSO
CINNAMON

PER

6 d BAG

ALSO
SULPHUR & ORANGE

THOMPSON & CAPPER WHOLESALE LIMITED
MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL



The Chemists' Own Effervescent

“**M**INERAL SPRING” is not supplied to the grocery or allied trades. The Chemist who specialises in it therefore protects himself against unprofessional competition as far as salines are concerned and definitely builds up his own goodwill. Its quality ensures repeat orders and its sales policy ensures that this profitable business comes back to the Chemist.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797

E/339

G.P. 793/31

IMPORTANT ANNOUNCEMENT

!!!!

la **VELOUTY**
de DIXOR

NUMBER 1 HANDBAG SIZE
FROM
FEBRUARY 1ST 1931
WILL BE RETAILED AT
4¹/₂^{D.}

AN EXTENSIVE ADVERTISING
CAMPAIGN IS STARTING NOW
IN
DAILY SKETCH, DAILY MIRROR,
PICTUREGOER, HOME CHAT,
WOMAN'S PICTORIAL,
MODERN HOME.

N° 1 handbag tube	3/-	a doz.	retail	4 ¹ / ₂ d
N° 2 small	4/-	—	—	6 d
N° 3 medium	7/-	—	—	1/-
N° 4 large	14/-	—	—	2/-
N° 5 super	22/-	—	—	3/-
Pots 2 1/-	—	—	—	2/9

SOLE BRITISH AGENTS FOR
LA VELOUTY DE DIXOR
DEBACQ & HARROP
68 NEWMAN ST. OXFORD ST.
LONDON W.I.

★ NUCTONE ★

LONGER HAIR MEANS MORE HAIR RECOLOURATION

With the new vogue for longer hair, hairdressers are finding an increased demand for hair recolouration. You must be finding this demand reflected in your business too. Make the most of it! Nuctone is the ideal tinting method for longer hair—it gives the hair back its normal colour, makes it more glossy and "alive," so that it takes kindly to the new hairdressing treatment. When a customer asks you for a safe, reliable hair recolouration method, always recommend Nuctone.

NUCTONE FOR GREY HAIR

GRADUAL—In four shades—
Nuctone and Nuctone Concentré, Nuc-
tone Eclairé and Eclairé Concentré.
3/9 per bottle 32/- per dozen
6/6 per bottle 52/- per dozen

Order through your wholesaler, or from
J. C. GAMBLES & CO., LTD.
211 BLACKFRIARS RD., LONDON,
S.E.1

THE NEW WATTS-SERVICE SAFETY RAZOR

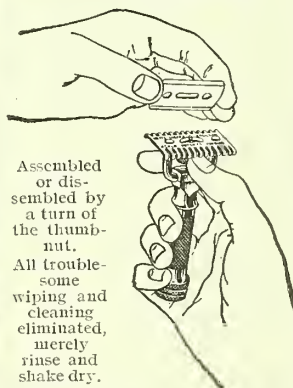


Holder and
Two Blades
in box
5/-

Super Sets from
12/6 to 42/-

The last
word in
**SAFETY
RAZORS**
with
**Stainless
Steel
Blade &
Holder**

Automati-
cally fixed
positive
shaving
angle for
each edge
Only two
parts.
Rustless in
any climate



Assembled
or dis-
sembled by
a turn of the thumb-
nut.
All trouble-
some
wiping and
cleaning
eliminated,
merely
rinse and
shake dry.

MANUFACTURED BY
JOHN WATTS (Sheffield and London) LTD.
Lambert Works, Sheffield, England.
London Office and Showroom: 18 Soho Square, W.1

All for  Beauty



Beauty Preparations that keep their word—to your customers and to you

Only three short years ago, Harriet Hubbard Ayer Beauty Preparations—so long famous throughout America—began to be sold in this country. To-day they have been taken up by nearly every important retailer in Great Britain, and are used by an ever-growing number of discriminating English women.

This great success is based on three things. First, the obvious improvement every woman sees in her looks after a short trial of the Harriet Hubbard Ayer treatment. Secondly, the planning of the preparations—each of which performs two or three functions instead of only one. Luxuria, for instance, combines the virtues of a cleansing cream, a bleacher and a skin food. Thirdly, widespread advertising in the foremost journals read by women.

The retailer who takes up Harriet Hubbard Ayer preparations now will find already created for him a sound, healthy and rapidly increasing trade. Write to Harriet Hubbard Ayer Ltd., 130 Regent Street, for comprehensive catalogue and terms. Or preferably, call and see our spacious new showrooms, and receive all particulars personally.

The retail prices for the famous Luxuria Cream are 2/3, 4/-, 8/6, 11/9.

HARRIET HUBBARD AYER
LTD

Beauty Preparations

NEW YORK

LONDON

PARIS



Sell small introductory lines

CHERAMY SMALL PERFUMES

In Display Boxes of 48 Assorted

28/10 per box net

and in Cartons of 12 in one perfume
only. Cappi, Fausta, Offrande, Joli
Soir, Parfum X.

7/3 per doz. net.

To retail at **1/-** each

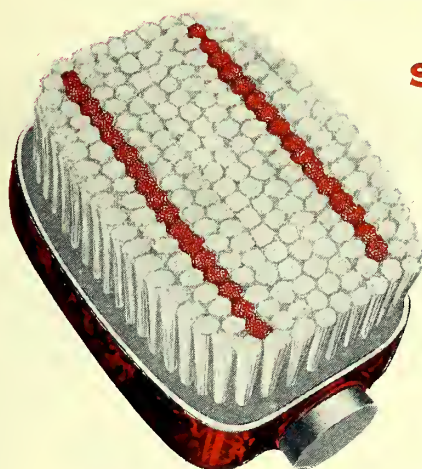
FLACONNETTES "POUR LE SAC"

CHERAMY

PARIS

Larden Road PARFUMERIES DE PARIS Ltd. Acton-London

CERTAIN PROFIT MAKERS FOR 1931



SELLING
AT
7/6



*With
a profit to
the retailer
of 50% on cost.*

Made in beautiful mottled
Bakelite. Self-contained
Batteries full strength.

Made in two colours as illustrated, also Walnut.

Each Brush supplied with Tester Free.

Packed in fine, hinge-lid box.
Beautiful 7-colour showcard free.

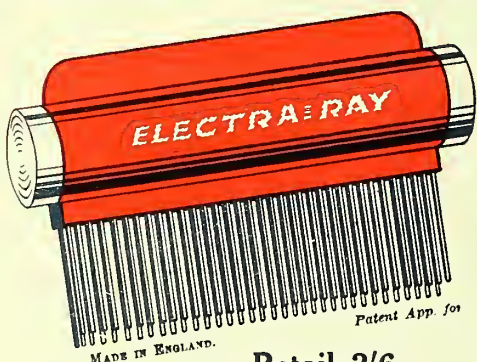
GUARANTEED BRITISH THROUGHOUT

*It is the Simplest, most attractive Electrified Brush
on the market to-day. At **7/6** it is easy selling.*

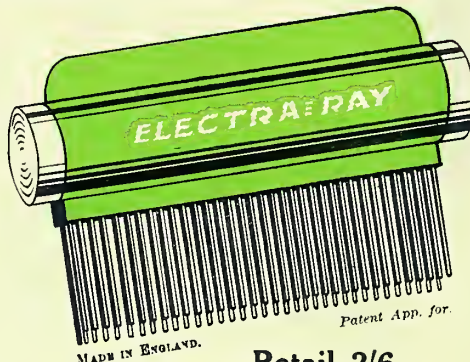
LECTRA RAY PRODUCTS LTD., 3, FLEET LANE, LONDON, E.C.4

ARE YOU GETTING YOUR SHARE OF EASY PROFIT ON ELECTRA-RAY PRODUCTS?

THE FASTEST SELLING ELECTRIC COMB ON THE MARKET.



Retail 2/6



Retail 2/6

The Quickest Seller ever placed on the market. An Instant Success.

Made in beautiful Bakelite in four colours—Red, Blue, Green, Black.



Other Colours, Blue—Black,
Green—Black.

A 5/- value sells for 2/6
A 10/- value sells for 5/-
A 20/- value sells for 10/-

Beautifully Gold Plated and Engine Turned.
and 50% profit on your cost.

Retail 5/-

THE ELECTRA-RAY SHAMPOO.
The Greatest Improvement in a Shampoo Package
EVER MADE!

3 SHAMPOO POWDERS 6^D.
In a new patented PERFORATED TEAR-OFF PACKAGE.

An attractive Counter-Display Box, containing one dozen envelopes (36 shampoos) retailing at 6/-, costs you 4/-, with a free bonus offer.

ELECTRA-RAY PRODUCTS may be ordered from stock of the leading wholesale houses in the following towns:

LONDON	MANCHESTER	LIVERPOOL	LEEDS	BIRMINGHAM	BELFAST
BRADFORD	GLASGOW	EDINBURGH	ABERDEEN	NEWCASTLE	BOURNEMOUTH
SHEFFIELD	YORK	NOTTINGHAM	LEICESTER	DERBY	DUBLIN
SWANSEA	CARDIFF	BRISTOL	IPSWICH	NORWICH	BRIGHTON

AUSTRALIAN DRUGGISTS' SUNDRIES LTD., York St. Sydney.

Sole Distributors: **LECTRA RAY PRODUCTS LTD., 3, Fleet Lane, London, E.C.4.**

Easter Novelties that sell themselves

*Show these
novelty packs—
and make
extra profit.*

Vinolia Easter Eggs and
Novelties make splendid
displays. They create an
additional Gift Season—
their appeal as Easter Gifts
is irresistible.



VINOLIA SOAP EGGS

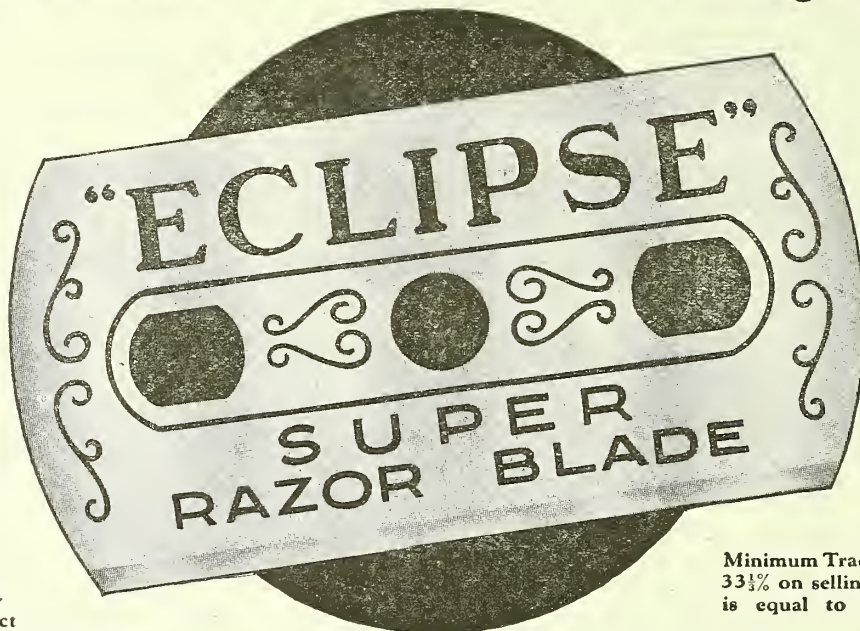
cannot be beaten

Write for
Illustrated
Leaflet and
special offers to :—
VINOLIA CO., LTD.
BEBINGTON, CHESHIRE.

B B

The Blade that sells on Quality.

3
FOR
1/-



5
FOR
1/8

Obtainable
from your
usual Whole-
saler or direct
from the Sole Manufacturers

Minimum Trade Discount is
33 1/3% on selling price which
is equal to 50% on cost.

JAMES NEILL & CO. (Sheffield) LTD., Crucible Steel Manufacturers, SHEFFIELD.

See our STAND No. D.142 at the BRITISH INDUSTRIES FAIR, OLYMPIA.

NOW IS THE TIME FOR ALL GOOD CHEMISTS

TO WRITE FOR

FREE SAMPLES

AND

1931 BONUS TERMS

SHEFFIELD

RAZOR

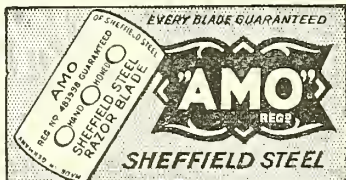
AMO

STEEL

BLADES

Nationally
Advertised

RETAIL
9d.
for 6

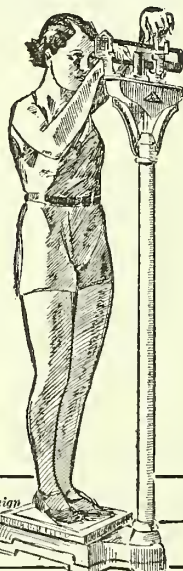


Small
Outlay
BIG
PROFITS
& SALES

WRITE NOW:-

AMO SAFETY RAZOR BLADE Co., Ltd. Broad St. House
LONDON, E.C.2
Telephone: Avenue 8846 Grams: Uzcarnos, Ald, London

ARE YOU GETTING YOUR FULL PROFIT FROM THIS HEALTH HABIT?



Eminent Specialists unani-
mously and consistently ad-
vise periodic weighing—are
you making the most of this?
A single scale in your shop
cannot make much for you
in pennies, but nearly every-
one who uses
it is a pros-
pective cus-
tomer for a
Scale. Why not put a range
of them in stock and com-
mence right away with this
profitable line?

Prices from 25/- to 116/-

The model illustrated is
No. 72. Retail Price £5 16 0

Write to-day for free book

Sole Agents for Gt. Britain

LIONEL STUART & CO. LTD

(Dept. C.D.) 61 Gt. Portland St., London, W.1

The C.A. Co. Ltd.

BRITAIN BEATS THE BAND AGAIN

ANNUAL ARMY CONTRACT WON FOR THE 3RD TIME

BY

MYATT DAYMARK BLADES & SAFETY RAZORS

For the third year in succession Myatt Daymark Safety Razors and Blades have won the exclusive War Office Contract to the British Army after open competition with most British and foreign manufacturers.

This success will be advertised in every important newspaper and an immediate increase of sales may be expected. Reap the full benefit of this extra trade by having ample stocks ready and making special displays.



MYATT DAYMARK BLADES

Have rapidly won a foremost place in the esteem of the public. They are consistently advertised. Their uniform keenness and the efficiency of the unique "Daymark" device maintains and constantly increases their popularity. They are a highly profitable, quick selling line, worthy of your strongest recommendation.

ORDER THROUGH YOUR USUAL WHOLESALER

PACKETS of 5

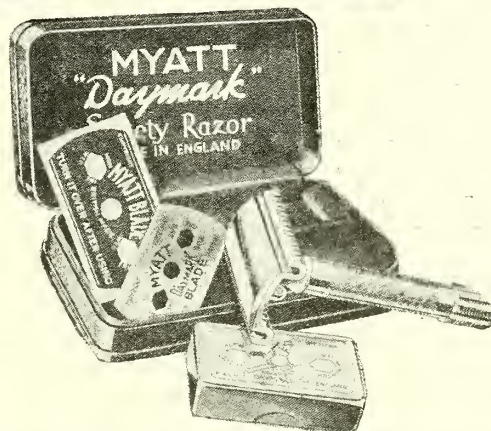
1/3 33 1/3% TRADE DISC!
SHOWING A PROFIT OF

50%
ON COST

THE DAYMARK RAZOR SET

This handsome outfit is new not only in name but in many exclusive features that make for shaving luxury. The complete Outfit includes heavily plated Safety Razor, Daymark Blade, Metal Case for spare Blades and Velvet-lined Leatherette Spring Lid Case. Extensive national advertising is creating a big demand everywhere. Order a supply to-day from your usual wholesaler.

**COMPLETE OUTFIT
LESS 25%
TRADE DISC! 2/6**



Sole Manufacturers : W. J. MYATT & CO., LTD., ARGENT WORKS, BIRMINGHAM.

MADE IN ENGLAND



The Brushes are made in nine models, retailing from 3/6 to 18/6, all subject to generous discounts giving you a substantial living profit. Can be supplied through your usual wholesaler.

THE "MASON PEARSON" is the only PERFECT Hair-brush made and sold to-day; the reason being that the *only* perfect hair-brushing material—the *black unbleached bristle of the Wild Boar*—is used in its making.

There is no disputing the fact that the "MASON PEARSON" brushes much more quickly than *ANY OTHER* brush; it brushes more efficiently; it cleanses the scalp more gently and thoroughly; it improves the general attractiveness of the Hair, and keeps it at its best. No hair-brush can do more than this.

By selling the "MASON PEARSON" Hair-Brush you enhance your own professional reputation through its good qualities.

MASON PEARSON HAIR-BRUSH

MASON PEARSON SELLING AGENCY LTD.

59 NEW OXFORD STREET, LONDON, W.C.1

SPRING SEASON LINES

YOUR DEMAND FOR THE
FOLLOWING MAY NOT BE LARGE.
BUY RIGHT AND INCREASE IT!

**WATERGLASS, OLIVE OIL
CITRATE OF MAGNESIA
AND SULPHUR TABLETS**

MAKE A CONTRACT WITH US, AND BE
COVERED AGAINST A RISE IN PRICES
AND SECURE THE BENEFIT OF A FALL.

"NEWBERYS"
(F. NEWBERY & SONS LTD)

Crichton Place,
Cardiff

Charterhouse Sq.,
London, E.C.1

College Lane,
Liverpool

Established 1795.

LAUTIER FILS

Works: GRASSE (France) & BEYRUT (Syria).

Essential Oils and Synthetics.
All Raw Materials for Perfumery.

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Sole Agents for:—

PAOLO VILARDI Messina Oils:
Lemon, Bergamote, Sweet Orange, etc.

S.A. FLORFE Spanish Oils:
Spike Lavender, Rosemary, Thyme,
Pennyroyal, etc.

C. MINTCHEFF & KETCHEDJIEFF
Otto of Rose. Bulgarian.

Wholesale and Export only.

LAUTIER FILS, Ltd. 107 Commercial St., London E.1.
Tel. Add. "Lautier" Phone, London. "Phone: Bishopsgate 8271/2

sales without words

*A new idea in toothbrushes
that will accelerate your sales*

Just you see what happens when you put the **HARD-CORE HALEX** on your counter. It is so ingenious and so obviously the perfect toothbrush that customers who hadn't even considered a new brush will buy it at sight. Look at the diagram and you will see for yourself why it is so attractive.

For a few weeks only—

**WE WILL GIVE YOU
TWO 1/9 BRUSHES FREE**

The **HARDCORE HALEX** retails at 1/9 and costs you only 13/- a dozen, so that in the ordinary way you make a profit of over 61% on cost.

But until March 31st you can have *two brushes free with every two dozen you order—which makes a total profit of 75% on your outlay.*

SEND IN YOUR ORDER NOW

Order two dozen **HARDCORE HALEX** from the address below or from your usual wholesaler, and the two free brushes and the display matter will come with them automatically.

the **HARDCORE HALEX**

If you are running short of Halex Toothbrushes replenish your stock now and be ready for the big advertising campaign starting March 2nd. Those who have never stocked Halex should order the Halex Introductory Parcel which contains a full stock of Nos. 1 to 6, as well as the Halex Showcase. Costs 40/-. Brushes sell for 66/- (65% profit).

THE BRITISH XYLONITE CO. LTD., HALE END, LONDON, E.4



PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
CHEMICALS FOR ALL INDUSTRIES.

'Phone: Mansion House 7300. Tel. Add.: "Levermore, Phone, London."
A. LEVERMORE & CO. LTD. ABC Codes.
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

FRED^K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SHELLACS ALL GRADES.

Chemists' Fittings

When you want Shop Fittings it will pay you to send to

GEORGE COOK

The Chemists' Working Shopfitter.
27 Macclesfield Street, City Road, LONDON, E.C.1
30 years' experience. Rough Sketches free.



SHADEINE

FOR TINTING GREY HAIR

This popular article is largely advertised
and stocked by all Wholesale Houses.
Trial size 8d. per doz. 6/-
1/4 size, per doz. 12/-
2/6 size, per doz. 24/-
3/9 size, per doz. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2

The REAL Eyelash GROWER

"Crescent" EYELASH OINTMENT

Recommended by Oculists and Beauty
Specialists. Delights all Customers.
Selling price 7/6 per pot. Trade 6/9/- per doz. Attractively packed
for show purposes in Gold Cartons of half-a-dozen.
Send now to—THE CRESCENT PREPARATIONS CO.
4 Woodlands Rd., LONDON, S.W.13 Phone: Putney 2149

BATH & TOILET SALTS DE LUXE

Nymphaea

INSTANTLY SOLUBLE
EVEN IN COLD WATER

Retail: 1/-, 3/6 & 6/6 P.A.T.A.
Patentees & Sole Manufacturers
SUPERFINE CHEMICALS, Ltd., FELTHAM, MIDDLESEX.

CHICAGO HAIR DYE

Absolutely safe to use and shows the largest profit of any dye on
the market. 1/6d. size 11/- dozen. Special terms for quantities.
Obtainable from your usual wholesaler or direct from—
SINGLE, DALBY & CO. 42 OLDHAM RD., MANCHESTER

TATCHO Sample Size 6^D

THE HAIR RESTORER

6 Bottles in Case for Counter Display,
4/- PER DOZ.

PROMOTES, PRODUCES, 1/3 size .. 12/6 per doz.
BEAUTIFIES THE HAIR 2/9 size .. 26/- per doz.

TATCHO Laboratories, 5 Great Queen Street London W.C.2

"ZUDOR" JACKET

THE CHEST AND LUNG PROTECTOR FOR

Bronchial Troubles. Suitable for Children and Adults.
Universally Prescribed by the Medical Profession. Sold in six
sizes and packed in handsome cartons. Window display material
supplied.

CUXSON, GERRARD & CO., LTD. OLDBURY, BIRMINGHAM

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's
Ailments is advertised so extensively in the
daily and weekly Press as to bring mothers to
the retailer without effort on his part.

The selling has been done before the mother
reaches the chemist, and, having supplied her, it
is only common sense to claim she will buy other
family necessities from him. Moreover, the con-
tinuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

Mermaid Regd.

FACE CLOTHS

We supply no one but Chemists and Druggists with
"SAFEGUARD" Rubber Goods
They are of Highest Quality and Packed Hygienically.

Samples and Prices on application.

BURGE, WARREN & RIDGLEY, LTD.

91/92 GREAT SAFFRON HILL, E.C.1

Phone: Holborn 0050. Telegrams: Pessaries, Smith, London.



DRY BATTERIES

SELL ALL THE YEAR ROUND
PIFCO carry a twelve months' storage
guarantee and only cost 4½d. subject.

Illustrated Catalogue free.
85 PIFCO HOUSE - MANCHESTER

Kissproof
REG. TRADE MARK

The 1/- and 2/- lines are now
being extensively advertised.

What about your stocks? THOS. CHRISTY & CO.



It pays to display
**POTTER'S
 CATARRH
 PASTILLES**

P.A.T.A. - 1/3
 11/- PER DOZ.
 IN BOXES OF
 HALF DOZENS

There is a brisk demand

POTTER & CLARKE LIMITED

Drug Merchants---Manufacturing Chemists

60, 62, 64 ARTILLERY LANE, LONDON, E.1.

Phone:-Bishopsgate 4761-5 lines. Grams:-Horsehound, phone London, (2 words)

and **24, LUNA STREET, GREAT ANCOATS STREET, MANCHESTER**

Phone:-Manchester City-6048. Grams:-Horsehound, Manchester

2

CERTAIN WINNERS

For your pharmacy to meet the popular demand.

WINNER

COLD WATER STOCKING DYES

For making
OLD, FADED or SPLASHED
STOCKINGS of any material like
NEW. Especially suitable for Artificial
Silk of every kind (including Celanese).

Packed in Waxed Tubes and Cartons

12 latest stocking shades:—

COPPER BEECH	COCOA	ROSE GLOW
FLORENCE MILLS	NUDE	BULRUSH
NEW BROWN	BEIGE	SUNTAN
SMOKE GREY	DAGO	GUNMETAL

Price 2/- per doz.
(less 5% for cash in 7 days);
Retail at 3d. each.

The Wooden DISPLAY CABINET (as illustrated)

with glass front and design in eight colours
is given

FREE WITH ONE GROSS
*IT WILL SELL THE GOODS
FOR YOU!*



WINNER HOME DYES

are the finest obtainable for
WOOL, SILK, COTTON, ETC.

They are a companion line to WINNER STOCKING DYES
and are packed in a similar manner.

24 specially concentrated Fast Colours:

BLACK	NIGGER BROWN	PINK
NAVY BLUE	PURPLE	CHERRY
BLUE	LAVENDER	OLD ROSE
SAXE BLUE	MAUVE	GREY
ROYAL BLUE	GREEN	CREAM
FAWN	DARK GREEN	YELLOW
BROWN	EMERALD	ORANGE
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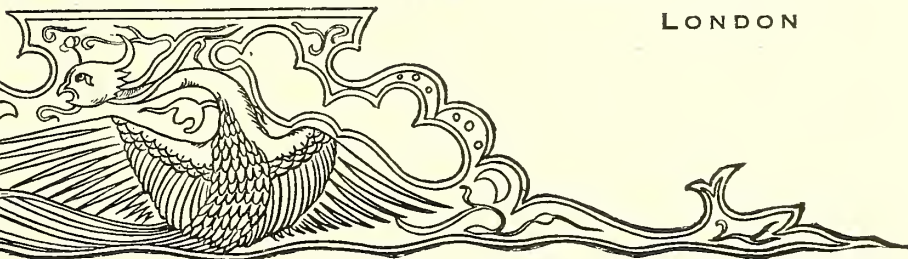


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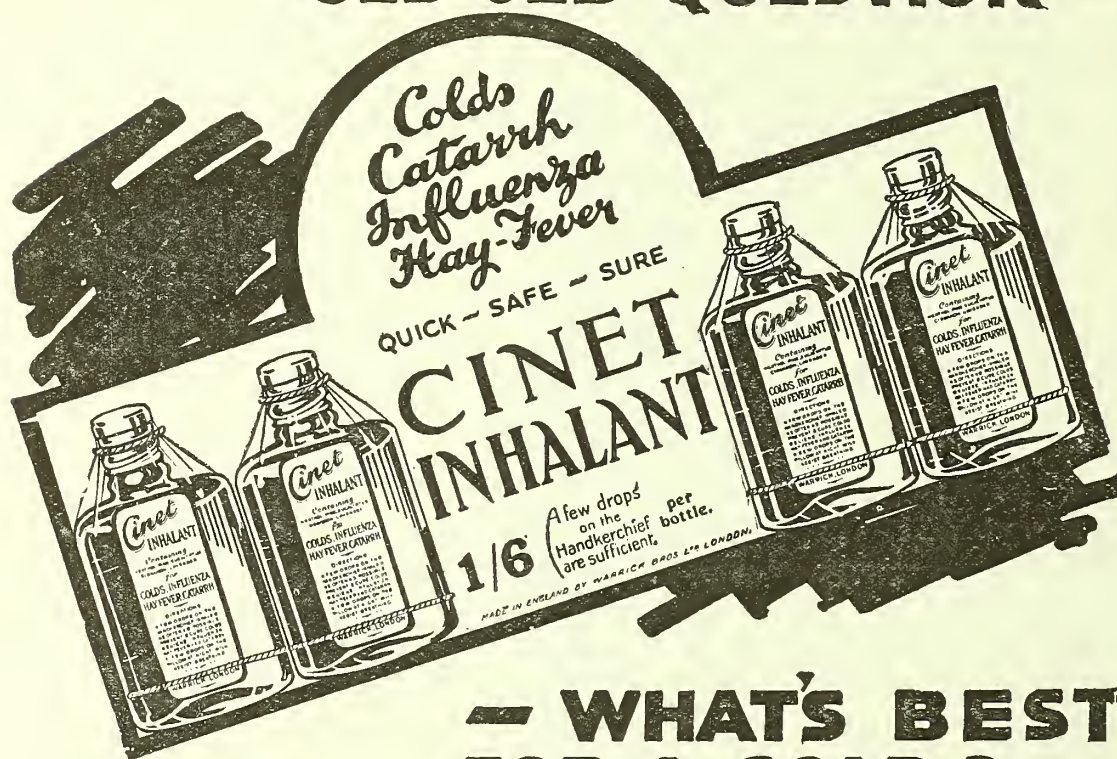
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THE CHEMIST AND DRUGGIST



A WEEKLY JOURNAL OF PHARMACY,
THE DRUG, CHEMICAL & ALLIED TRADES.

Telegrams: "Chemicus, Estrand, London."
Telephone: Central 6565 (8 lines).

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English and Welsh News

Curios in the Sale Room

The well-known collection of old English pottery and works of art formed by the late Mr. Byran Harland and Mrs. Harland came under the hammer at Sotheby's, London, W.1, on February 11 and 12. The prices were not indicative of a general slump. Lot 14 consisted of four small items described in the catalogue as follows:—

A rare early Lambeth ointment pot in plain white, inscribed in blue with the cypher and date "C R 1647," beneath a crown, $3\frac{1}{2}$ in.; a pair of tin glazed drug vases, inscribed respectively "G. Scarle, Druggist, Leeds," and "Brand, Grocer, &c., Malton," $5\frac{1}{4}$ in.; and a smaller ointment jar.

The price realised was £13 10s. Lot 18, consisting of four Lambeth drug jars of oviform shape, inscribed in blue "OPHTHALMOS," "TUTIAE," "CARIOPHIL, H.H. 1662," and "EGIPTIAC, G.P. 1662," sold for £16 10s.; one of the dated jars was cracked. Lot 38, consisted of ten items, a set of ten drug jars, painted in blue, and inscribed with names of drugs within rococo panels, realised £17. A small collection of bronze mortars offered on the second day, when the highest price paid was £18 (for Lot 262); the catalogue read: "An English bronze Mortar, with four handles (two loop and two square) and four rope flanges, moulded round the base with R.S. M.S. 1591; $5\frac{3}{8}$ in. high; with iron pestle." Two small English mortars (Lot 257), dated 1622 and 1661, failed to realise more than £6, and several decorated Dutch mortars, as well as a few of roughly cast Moorish type, averaged about £2 10s. each.

Contracts

The following tenders have been accepted by the bodies named:—

Gravesend Education Committee.—Mr. A. A. Gillitt, Ph.C., drugs, etc.

India Office.—W. G. Taylor (Southall Bros. & Barclay, Ltd.), Birmingham, lint.

Windsor Education Committee.—Mr. A. T. Baker, chemist and druggist, drugs, etc.

Inquests

An inquest was held at Hull, on February 13, on the body of Amos Popplewell, labourer. Medical evidence was given to the effect that the deceased had taken 200 aspirin tablets and that death was due to aspirin poisoning. An open verdict was recorded.

Another case of poisoning by aspirin was disclosed at a recent inquest held by the Westminster coroner; the quantity taken was stated to be 260 gr.

Birmingham

Mr. H. H. Marshall, chemist and druggist, has been elected vicar's warden of St. Agnes' Church, Moseley, for the seventh time.

The Birmingham section of the British Industries Fair opened on February 16. As usual, the majority of the exhibits were derived from the heavy manufacturing industries.

Liverpool

Dr. Ralph A. Furniss, son of Mr. A. S. Furniss, chemist and druggist, Old Swan, Liverpool, has been awarded the Thelwall Thomas exhibition at Liverpool University.

A joint meeting of the Old Students' Association of the Liverpool School of Pharmacy and the Liverpool Chemists' Association was held on February 11, Mr. L. Moreton Parry (president, Liverpool Chemists' Association) in the chair. A lecture was given by Mr. G. R. Boyes (Parke, Davis & Co.) on "Bacterial Materia Medica," followed by a cinematograph film entitled "How Biological Products are Made." About eighty members were present. Mr. H. Wyatt proposed a vote of thanks to Mr. Boyes, which Mr. H. Humphreys Jones seconded.

Miscellaneous

POISON-LICENCE APPLICATION.—Joseph Bentley, Ltd., Barrow-on-Humber, have applied for a licence to sell horticultural and agricultural poisons.

SPORTING EVENT.—Playing on the Portman Road ground, on February 4, the Ipswich Chemists' mixed hockey team beat Severalls Mental Hospital (Colchester) by 5 goals to 4.

DAMAGE CAUSED BY GALE.—The premises of Mr. J. P. Sidebottom, chemist and druggist, Blackpool, were damaged by a gale on February 12, the glass of the door and several windows being smashed.

IN THE COURTS.—At Birkenhead, recently, Thomas Horam, Patten Street, was fined 30s. for selling dutiable medicines without having a licence. For the prosecution it was stated that the defendant held a patent medicine licence until its expiration last September. He was given a reminder to renew the licence.

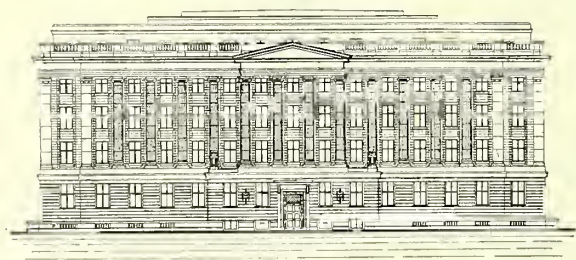
ROYAL SOCIETY OF ARTS COMPETITION.—Particulars of the eighth annual open competition of industrial designs, to be held at the Imperial Institute, South Kensington, London, S.W.7, in June, have been issued, and can be obtained from the secretary of the Royal Society of Arts, John Street, Adelphi, London, W.C.2.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.—Members are reminded that the election of the Committee of the Association takes place in April. Nominations of new candidates (with the consent in writing of the candidate nominated) should reach the secretary, Miss Hodgkinson, 12 Langside Crescent, Southgate, London, N.14, not later than March 1. Each nomination must be signed by two members of the Association.

HISTORY OF SCIENCE AND TECHNOLOGY.—The second International Congress of the History of Science and Technology will be held in London on June 29-July 3, with the Science Museum, South Kensington, as headquarters, under the presidency of Dr. Charles Singer. The programme includes several excursions and social functions. Particulars may be obtained from the secretary, Mr. H. W. Dickinson, at the South Kensington Science Museum, S.W.7.

WINE-LICENCE APPLICATIONS.—The applications of the following chemists at the recent local Brewster Sessions have been refused:—Mr. E. J. Davies, New Quay, Cardigan; Mr. G. W. Howarth, Swinton, Manchester; Mr. E. J. Thomas, Aberayron; D. T. Williams (Skeetty), Ltd., Swansea.—At York Brewster Sessions, recently, Mr. J. B. Solomon, chemist and druggist, was granted a wine off-licence, subject to the sales being confined to medicated wines.

A HOSPITAL'S REFUSAL.—Following the refused application of Eccles and Patricroft Hospital to be placed on the panel of National Health Insurance chemists (*C. & D.*, February 7, p. 142) the secretary to the hospital states:—"We shall ask the courts to move in the matter. If we lose on the technicality of a supposed flaw in our articles, we shall rectify the matter and fight again. If we are successful, the income of every hospital will be augmented by one-third, and they need never be in debt again."



MEDICAL AND CHEMICAL RESEARCH BUILDING TO BE ERRECTED FOR THE WELLCOME FOUNDATION, LTD., AT THE CORNER OF GORDON STREET AND EUSTON ROAD LONDON, W.C.1, ON A SITE NOW PARTLY OCCUPIED BY THEIR BUREAU OF SCIENTIFIC RESEARCH.

Scottish News

Brevities

An interesting survey of 250 years' progress of the Royal College of Physicians appeared in "The Scotsman" recently.

Mr. A. P. Wallace (president of the Aberdeen Pharmaceutical Association) was the only successful competitor in Scotland in the recent window display competition promoted by The Zenobia Co., Ltd.

Professor J. Russell Greig, director of the Animal Breeding Research Association, Edinburgh, lectured recently to the Glasgow and West of Scotland Agricultural Discussion Society on the problems of grass disease.

Irish News

Brevities

Mr. George C. Hewson, M.P.S.I., F.C.S., the newly elected pharmacy examiner of the Pharmaceutical Society of Ireland, has already acted as the Society's examiner in materia medica and botany. He has done a considerable amount of research work, and has been employed by the Free State Government to assist in the development of the kelp industry. Last October he delivered an interesting lecture on the subject.

At Cookstown, co. Tyrone, on February 13, David J. Acheson, trading as S. Turkington, was charged with selling sweet spirit of nitre which was alleged to be deficient in ethyl nitrite. The case was dismissed on payment of costs and 10s. 6d. analyst's fee.—For selling ginger wine which was not of the quality demanded, Anna Dilworth, Killyman Street, Moy, was recently fined 2s. 6d., with 14s. 6d. costs.—For selling sweet spirit of nitre below standard, Francis Kinnear was fined 1s., with 14s. 6d. costs, at Clogher, recently.

Belfast

Mr. Horatio Todd, Ph.C., recently presided at a meeting of Belfast magistrates in the absence of the Lord Mayor.

Notable successes were gained at Cruft's Dog Show by Mr. J. Montgomery, Ph.C., Belfast, who won six prizes—three first and three second—in the bulldog section.

National Health Insurance was discussed by Belfast Board of Guardians, recently, on an interim report of the Joint Finance and Medical Charities Committee relative to the administration of the Medical Benefits Act. The report referred to the supply of artificial limbs and medical appliances, and said the Guardians were relieved from the treatment provided in relation to insured persons, but persons who were destitute must still be supplied by the Guardians with artificial limbs and other medical appliances not provided for under the Act. It was decided to supply the persons indicated.

Business Changes

BOOTS, LTD., have acquired the business of Mr. Banks Swinburn, chemist and druggist, 23 Devonshire Street, Penrith.

MR. J. OWEN, chemist and druggist, Hall Street, Rhos, Wrexham, has opened a branch in Bank Street, Ponkey, Wrexham.

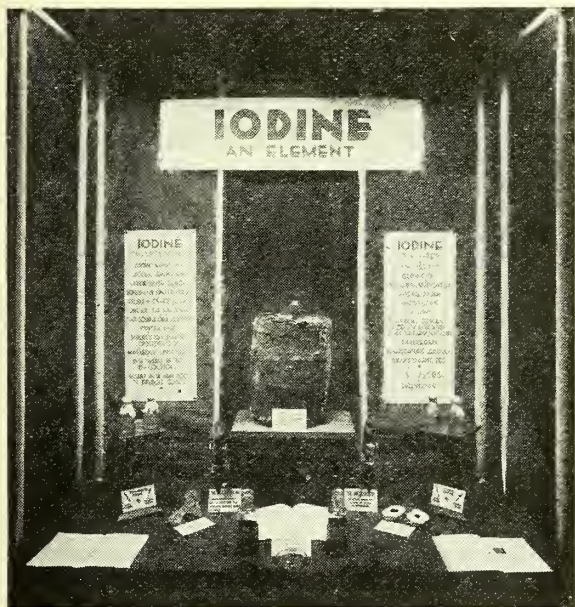
MR. H. G. M. FOUNTAIN, chemist and druggist, Stamford, has purchased the business of the late Mr. T. H. Hinson, chemist and druggist, Gosberton.

American Notes

CHICAGO is to have another world's fair, in 1933, and pharmacy is to have a display at it. The event is in part to celebrate the city's centennial.

CHEMICAL INDUSTRY LEADERS.—The following industrial leaders have been nominated as candidates for a medal to mark the most distinguished economic services to American chemical industry:—E. M. Allen, president, Mathieson Alkali Works; Leo Baekeland, chairman, The Bakelite Corporation; Pierre S. du Pont, chairman, the Du Pont companies; Herbert H. Dow, president, Dow Chemical Co.; and George Eastman, chairman, Eastman Kodak Co.

A WINDOW DISPLAY AT PHILADELPHIA COLLEGE.—"Iodine, an Element" is the theme of a window display which was installed recently in the drug store in the Philadelphia College of Pharmacy and Science. (This drug store, completely equipped, is used exclusively as a demonstration laboratory. No merchandise is sold.) These signs are white, with the large letters of green and the smaller letters of black. The crêpe paper flooring and backing is green with white trimmings. Central in the scheme of the display is a keg, of the type used to transport crude iodine from South America to the United States. Directly in front of the keg is the United States Pharmacopœia, opened to iodum, with a



petrie dish of iodine crystals. On one side is a bottle of tincture of iodine and on the other a bottle of Lugol's solution. On each side of the keg is a microscope and on platforms are two cultures, of staphylococcus and typhoid. One flask of each culture contains iodine and the other does not. The cultures with iodine are clear, the others are cloudy, showing that iodine has bactericidal action. To the right is a potato, cut in half. A drop of iodine has been applied to the potato and the resulting blue colour shows the presence of starch in the potato. Two journals are opened to the view of the passer-by. One, the "Chemistry Leaflet," is opened to an article describing the research work done at the Philadelphia College on iodine, in co-operation with the Mellon Institute. The other is the "American Journal of Pharmacy," published by the Philadelphia College, opened to an article entitled "Iodine, the Element of Doubt," by Professor Ivor Griffith. The facts on the cards about iodine and the list of its uses will inform even the most casual passer-by that iodine is more than a mere something to apply to cuts. During the two weeks the window was on view it attracted great attention from students and visitors alike.

The French Health Insurance Act

SINCE the beginning of this year the new Health Insurance Act has been in force in France. It is administered on somewhat similar lines to the English one, but only employees earning less than £120 per annum are eligible for its benefits; each employee pays about 6s. 8d. a month, the employer contributing an equal amount.

Payment to the pharmacien is based on a tariff for the drugs supplied, plus a dispensing fee, which varies according to the nature of the operation; thus, for dispensing a 3iv. mixture or potion he receives 3d.; 3iv.-5x., 5d.; cachets, pills and powders, 6d. a dozen; ointments, 3j. 6d., 5j. to 3iv. 8d. The insured person pays the pharmacien cash for his medicine, etc., the latter giving him a receipt and details of the amount, which is reimbursed to him by the proper authority. This cash payment is very convenient for the pharmacist, as he does not have to give credit to the State for an indefinite time, and the drug tariff is framed on a much more generous scale than in the United Kingdom. The drawback is that it entails a great deal of extra clerical work during business hours.

The sick person, in addition to receiving free medicines and medical attendance, is entitled to 3s. a day allowance during incapacity, his wages being stopped by his employer for as many days as he is absent. One result of the Act has been to increase the charge for private dispensing, as it would be an anomaly for the private patient to pay less than his "panel" brother. In the South-West of France 1s. 4d. is the lowest price for a mixture, which is not bad when one remembers that the cost of living, though rising, is less than in England.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, February 24

Pharmaceutical Society of Great Britain, Cambridge and District Branch, Lion Hotel, Petty Cury, at 8 p.m. Meeting.

University of London, University College, Department of Pharmacology. A course of six public lectures on "Physical Properties and Chemical Structure of Drugs in relation to Pharmacological Action" will be given by H. R. Ing, M.A., D.Phil., and Miss W. M. Wright, M.A., Ph.D., on Tuesdays and Thursdays at 5 p.m., beginning February 24. Admission free.

Wednesday, February 25

Liverpool Chemists' Association and Branch of the Pharmaceutical Society, Royal Institution, Colquitt Street. Mr. J. R. Walmsley on "The Proposed Changes in the British Pharmacopœia, 1931."

South-West London Chemists' Association and Branch of the Pharmaceutical Society, Holborn Restaurant, London, W.C.1. Annual dinner and dance. Reception from 6 to 6.30 p.m. Tickets, 12s. 6d. each, from Mr. J. E. Jones, 119 South Lambeth Road, S.W.8.

Thursday, February 26

Pharmaceutical Society of Great Britain, East Metropolitan Branch, Junior Section, Woodgrange Hall, Forest Gate, E.7, at 7.15 p.m. Social and dance.

South of England College of Pharmacy, Avondale Halls, Lander Road, Clapham, S.W., at 8 p.m. Annual social evening and dance. Tickets 2s. 6d. each.

SANCTA SIMPLICITAS.—With a liberal allowance of heavy type, "The Daily Express," of February 16, prints an effusion on the Pharmacy and Poisons Bill. We read, *inter alia*:—

"The Bill has already passed through the House of Commons, and has had its first reading in the House of Lords. Scotland Yard is on the side of the chemists in their opposition to certain clauses of the Bill. . . . It was a tin of weed-killer which stood on the table of the coroner's court at Winchester . . ."

New Companies and Company News

P.C. means Private Company and **R.O.** Registered Office.

PRESS & KNIGHT, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists. The subscribers are: S. Press and M. Elkan. R.O.: 72 New Oxford Street, W.C.2.

H. BEECHER WARD, LTD (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale or retail consulting, analytical, manufacturing, pharmaceutical and general chemists, herbalists and seedsmen, etc. The directors are: Mrs. Agnes M. Ward and H. Beecher Ward, chemist, both of 572 Hessle Road, Hull.

EDWARD TAYLER & CO. (BISHOPSGATE), LTD. (P.C.).—Capital £3,000. Objects: To carry on business as merchant shippers, bankers, traders, shipowners, commission and financial agents in the United Kingdom and elsewhere. The directors are: Sydney James Tayler, Irene J. R. Tayler and Dennis H. Smith. R.O.: 146 Bishopsgate, London, E.C.2.

L. B. PRODUCTS, LTD.—At a meeting held in London on February 16 it was resolved that this company be wound up voluntarily. Mr. P. Phillips, 132 Great Portland Street, London, W.1, was appointed liquidator.

HEPPELLS, LTD.—On the application of the debenture holders, Mr. Justice Maugham, on February 17, appointed Mr. Maurice Jenks, F.C.A., receiver and manager of Heppells, Ltd. The profit and loss account for the year to March 31 last showed a debit balance of £79,374. In the report the directors stated that they were directing attention towards the adequate reduction of overhead charges and that arrangements were in hand to improve the financial position and discharge obligations to creditors.

BORAX CONSOLIDATED.—The report for the year ended September 30 last, which recently announced the passing of the dividends on the preferred and deferred ordinary shares, discloses that the profit earned was £2,823 higher at £163,447 compared with the preceding year, when the full dividend of 6 per cent. was paid on the preferred ordinary. After bringing in £208,675, against £233,517, the directors have placed £30,000 to depreciation reserve, compared with nil in the previous year. Debiting debenture charges, and after meeting the dividend on the preference shares, there is £191,249 to be carried forward.

THE BRITISH DRUG HOUSES (CANADA), LTD., was formed on November 17, 1930, as a subsidiary of The British Drug Houses, Ltd., London. The board of directors is identical in personnel to that of the parent company. In the first stage the new company will act as distributors of B.D.H. products already packed for sale; for this reason it was decided to take premises in Terminal Warehouse, Toronto, this building being the most up-to-date in Toronto, and admirably situated for distribution of goods to all parts of Canada. Price lists for B.D.H. products stocked in Canada will shortly be issued.

THE "SANITAS" TRUST, LTD., have issued a circular stating that one of their constituent companies, the "Sanitas" Co., Ltd., has recently increased its capital by the creation of 67,200 new 9 per cent. cumulative preference shares of £1 each, and its capital now stands as follows: 230,000 9 per cent. cumulative preference shares of £1 each (£230,000) (of which 162,800 are issued and fully paid, and 67,200 are now being offered for subscription), 100,000 ordinary shares of £1 each, all issued and fully paid (£100,000), making a total capital of £330,000. These new preference shares are being offered to the existing preference shareholders of the "Sanitas" Co., Ltd., with a preferential right to allotment at the price of £1 2s. 6d. per share, and at this price show a yield of 8 per cent.

Application for Discharge

Re Joseph Edward Burton, trading as the Golden Lion Pharmacy, London Road, Westcliff.—At Chelmsford County Court, before the Deputy Judge, recently, an application for discharge from bankruptcy was made by Joseph Edward Burton. After hearing the statement of the Assistant Official Receiver, the Judge said it was a bad case, and would grant the discharge subsequent to a suspension of two years.

Petition Filed

Thos. Sandford, Ph.C., 18 Conway Square, Newtownards.—This trader filed (by order of the Court) a petition on January 28 for arrangement and for the protection of the Court. It was dated January 24. The unsecured liabilities are given at £2,625, and the assets, after deducting secured claims, are estimated to realise £600. Amongst the principal creditors are: Shaw & Jamieson, Ltd., Belfast, £67 10s. 7d.; Henry Bros., Newtownards, £29 2s. 2d.; Haydock, S., & Co., Belfast, £12 18s.; Anglo-American Optical Co., Ltd., London, £11 11s. 5d.; Cantrell & Cochrane, Ltd., Belfast, £29 17s. 8d.; Corry, William & Co., Ltd., Belfast, £10; McMullan, Thos., & Co., Ltd., Belfast, £287 10s.; Donald, George, Belfast, £200; bankers' claims, £164 10s. 2d.

Meeting of Creditors

Re John Buchanan, 3A Blackmoorfoot Road, Crosland Moor, Huddersfield, Yorkshire, pharmacy proprietor.—The first meeting of creditors herein was held at the Official Receiver's office, 12 Duke Street, Bradford, on February 9, when the debtor stated that his position was due to "lack of capital, competition, and the depression in trade." He produced a statement of affairs, which showed gross liabilities of £420 18s. 3d., of which £410 18s. 3d. was expected to rank for dividend. The net assets amounted to £56 9s. 2d., thus leaving a deficiency of £354 9s. 1d.

Bankruptcy Reports

Re Robert Henry Hyslop, 26 Derby Road, Southport, Lancs, chemist and druggist.—The public examination herein was conducted at the Court House, Government Buildings, Victoria Street, Liverpool, recently. The debtor's statement of affairs showed liabilities of £258, and assets of £9 5s. He attributed his failure to the result of a legal action in which judgment was given against him for £237 and costs. He had offered to pay £50 of the money by instalments. Regarding his present liabilities, the debtor stated that he would pay 10s. a week off these until they were discharged. The examination was closed.

Re Thomas Hopkin Fenwick, "Brynheulog," London Road, Rainham, Kent, chemist, etc.—The public examination of this debtor was held on February 2 at the Court House, Eastgate, Rochester, when a statement of affairs was filed which disclosed liabilities of £543 9s. 8d. and assets of £1,363 10s. 7d., thus showing a surplus of assets over liabilities of £800 odd. It would appear that the debtor commenced trading at Queenborough, acquiring freehold premises in Woodhall Terrace. He later sold the business and in January 1928 a shop was built for him at a cost of £1,075 10s., which he raised on mortgage and loans. He traded there as a chemist, but owing to disputes with the builder the latter sued him for £61 and costs. Judgment was given against the debtor, and execution followed. The debtor had kept books of account. The debtor was asked as to the justification of entering new premises when the margin of his profit was so small. He was questioned as to the valuation he had placed upon his property. He maintained that £1,450 was not an unfair figure. After further questions the hearing was adjourned.

Pharmaceutical Society of Great Britain

New Preparations of Diamorphine

The Council of the Society has issued a further Supplement to the British Pharmaceutical Codex, comprising the following preparations:—

ELIXIR DIAMORPHINÆ ET TERPINI CUM APOMORPHINÆ

Elixir of Diamorphine and Terpin with Apomorphine

Diamorphine Hydrochloride ..	0.046	4 grains
Apomorphine Hydrochloride ..	0.057	5 grains
Terpin Hydrate,	0.503	44 grains
Alcohol (90 per cent.)	50.000	10 fl. ounces
Glycerin	25.000	5 fl. ounces
Syrup of Wild Cherry	to 100.000	to 20 fl. ounces

Dissolve the diamorphine hydrochloride, the apomorphine hydrochloride, and the terpin hydrate in the alcohol, then add the glycerin and sufficient syrup of wild cherry to produce the required volume. This preparation contains $\frac{1}{30}$ grain of diamorphine hydrochloride and $\frac{5}{8}$ grain of terpin hydrate in 1 fluid drachm.

Dose.—2 to 4 mils ($\frac{1}{2}$ to 1 fluid drachm), diluted.

LINCTUS DIAMORPHINÆ CAMPHORATUS

Camphorated Linctus of Diamorphine

Diamorphine Hydrochloride ..	0.046	4 grains
Camphor	0.046	4 grains
Benzoic Acid	0.069	6 grains
Oil of Anise	0.052	5 minims
Liquid Extract of Ipecacuanha ..	1.250	120 minims
Tincture of Squill	7.500	1½ fl. ounces
Syrup	to 100.000	to 20 fl. ounces

Dissolve the diamorphine hydrochloride, camphor, benzoic acid, and oil of anise in the tincture of squill; add the liquid extract of ipecacuanha and sufficient syrup to produce the required volume. This preparation contains $\frac{1}{30}$ grain of diamorphine hydrochloride in 1 fluid drachm.

Dose.—2 to 4 mils ($\frac{1}{2}$ to 1 fluid drachm).

LINCTUS DIAMORPHINÆ CUM IPECACUANHÆ

Linctus of Diamorphine with Ipecacuanha

Liquid Extract of Ipecacuanha ..	1.250	120 minims
Diamorphine Hydrochloride ..	0.046	4 grains
Tincture of Hyoscyamus	7.500	1½ fl. ounces
Spirit of Chloroform	7.500	1½ fl. ounces
Syrup of Balsam of Tolu	15.000	3 fl. ounces
Syrup of Wild Cherry	15.000	3 fl. ounces
Glycerin	to 100.000	to 20 fl. ounces

Dissolve the diamorphine hydrochloride in the tincture and spirit; mix with the syrups and the liquid extract of ipecacuanha, and add sufficient glycerin to produce the required volume. This preparation contains $\frac{1}{30}$ grain of diamorphine hydrochloride in 1 fluid drachm.

Dose.—2 to 4 mils ($\frac{1}{2}$ to 1 fluid drachm).

LINCTUS DIAMORPHINÆ ET SCILLÆ

Linctus of Diamorphine and Squill

Diamorphine Hydrochloride ..	0.046	4 grains
Liquid Extract of Squill	5.000	1 fl. ounce
Liquid Extract of Senega (1 in 1) ..	5.000	1 fl. ounce
Tartarated Antimony	0.091	8 grains
Glycerin	10.000	2 fl. ounces
Syrup	to 100.000	to 20 fl. ounces

Dissolve the diamorphine hydrochloride and the tartarated antimony in a portion of the syrup; add the liquid extracts and the glycerin, and make up to volume with syrup. This preparation contains $\frac{1}{30}$ grain of diamorphine hydrochloride in 1 fluid drachm.

Dose.—2 to 4 mils ($\frac{1}{2}$ to 1 fluid drachm).

LINCTUS DIAMORPHINÆ ET THYMÆ

Linctus of Diamorphine and Thyme

Diamorphine Hydrochloride ..	0.046	4 grains
Apomorphine Hydrochloride ..	0.057	5 grains
Distilled Water	5.000	1 fl. ounce
Liquid Extract of Thyme (1 in 1) ..	25.000	5 fl. ounces
Solution of Tolu	6.250	1½ fl. ounces
Glycerin	to 100.000	to 20 fl. ounces

Dissolve the diamorphine hydrochloride and the apomorphine hydrochloride in the distilled water; add the liquid extract of thyme and the solution of tolu, and make up to the required volume with glycerin. This preparation contains $\frac{1}{30}$ grain of diamorphine hydrochloride in 1 fluid drachm.

Dose.—2 to 4 mils ($\frac{1}{2}$ to 1 fluid drachm).

The Society and the Institute of Chemistry

The following letter, dated February 13, has been sent by the secretary of the Pharmaceutical Society to the secretary of the Institute of Chemistry:—

"Your letter of January 3 and the enclosed copies of the petition and draft supplementary charter have been before the Council of the Society and have been carefully considered by them. I am directed by them to say that in their opinion the petition is so worded as to reflect unnecessarily upon pharmacy. As neither the petition nor the draft charter has yet been approved by the members of the Institute, the Council do not propose at the moment to do more than record that they take strong exception to the terms in which the petition is drafted."

Branch Meetings

Lancashire (N.E.).—The annual meeting of the North-East Lancashire Branch was held on February 17, Mr. J. E. Isherwood (president) in the chair. Mr. Fred Law (secretary) read a statement of the accounts for the year, and these were approved. The chairman said he did not think the Branch received adequate support from the outer districts. Mr. S. H. Sidebottom (Accrington) said it was not always easy to get to Blackburn from some of the outer districts after closing time. Mr. W. H. Lightbown moved the re-election of Mr. J. E. Isherwood as *President* of the Association for a second year. The resolution was carried with acclamation. Mr. Isherwood, responding, said his year of office had coincided with great financial stress nationally. It was strange that such a year had been marked by some of the most important and epoch-making events in the history of pharmacy. The following officers were also appointed for the ensuing year:—*Vice-President*, Mr. Thos. Haslam (Blackburn); *Treasurer*, Alderman W. H. Grimshaw; *Secretary*, Mr. Fred Law; *Committee*: Accrington, Mr. S. H. Sidebottom and Mr. Taylor; Darwen, Mr. Bleasard; Rishton, Councillor Edmundson; Oswaldtwistle, Mr. E. Eccles; and Blackburn, Messrs. W. Holt, H. Carter, and A. Dobson.

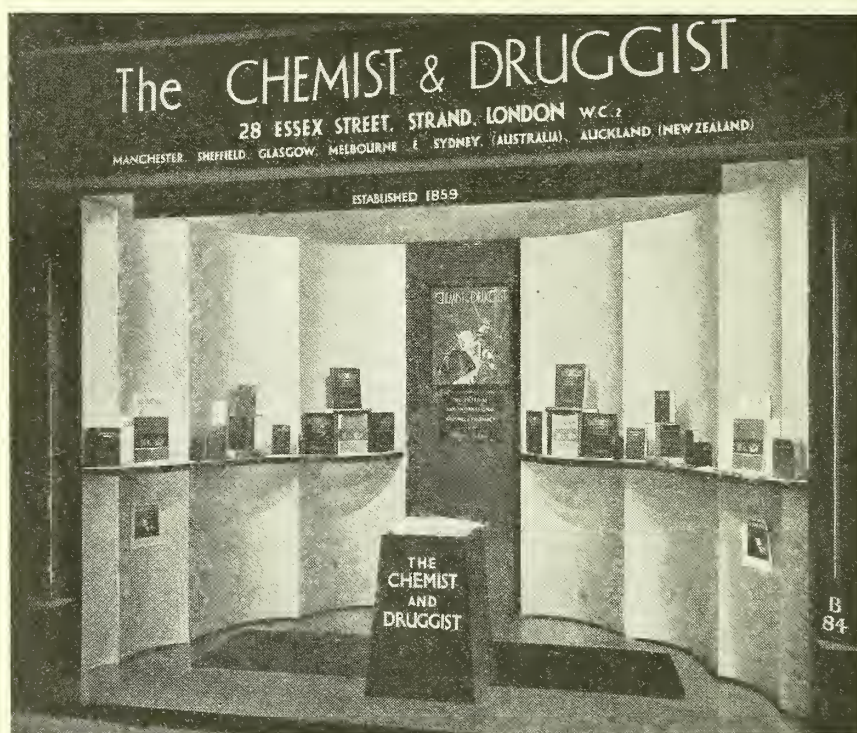
Mansfield.—The annual meeting of the Mansfield and District Branch was held on February 11. A good number was present to hear an address on The Pharmacy and Poisons Bill, by Mr. F. Gladstone Hines (vice-president of the Society). Mr. G. W. Briggs, Ph.C., was elected to the chair. The meeting opened with the election of Mr. J. G. Clarke, as *Secretary*, and Mr. A. A. Jesson, as *Treasurer*, for the ensuing year. Mr. Hines, in his address, clearing up many points, particularly the question of extra fees, the uses to which the money would be put, and the function of the Poisons Board. A vote of thanks to Mr. Hines was carried unanimously. The business of the meeting concluded with the appointment of a committee to promote meetings in the interests of the younger members of the profession in Mansfield.

Rhyl.—At the annual meeting of the Rhyl and District Branch, held on February 4, the following officers were appointed for the ensuing year:—*President*, Mr. C. R. Dixon (Rhyl); *Vice-President*, Mr. Pritchard (Prestatyn); *Treasurer*, Mr. Hughes (Prestatyn); *Secretary*, Mr. H. Crabbe Davies (Rhyl); *Committee*, Miss Dixon, Mr. Garner, Mr. Slinn, Mr. James, Mr. Price, Mr. Goronwy Jones, Mr. Rowland Lawrence (all of Rhyl), and Mr. Goodwin Jones (Ffynongroew).

BRITISH INDUSTRIES FAIR, 1931

Notes on the Principal Features

London, February 16-27



THE London section of this year's British Industries Fair, which opened at Olympia, W.14, on February 16 and remains open till February 27, has the advantage of being the second to be held in this relatively compact building, thus helping visitors to find without loss of time the kinds of goods in which they are principally interested. The hours are from 9.30 a.m. to 7.30 p.m.; and it may be mentioned that the public are admitted, on payment, after 4.30 p.m. daily, and on February 21 after 1 p.m. In addition to the London and Birmingham sections, a Cotton Textile Section has been opened at the White City, W.12, and an Artificial Silk Goods Section at the Royal Albert Hall, W.8. The Queen and other members of the Royal family are paying visits to various sections. The stands at Olympia, about 1,100 in number, occupy an area estimated at 294,788 square feet.

The customary Government banquet was held at Guildhall on February 16, the President of the Board of Trade (the Right Hon. William Graham) in the chair. Pharmacy was represented by the President of the Pharmaceutical Society and the Editor of THE CHEMIST AND DRUGGIST, and chemical manufacture by Mr. W. J. U. Woolcock. A message was read from the Prince of Wales, wishing success to the Fair. The principal speaker was the Duke of Gloucester, who

referred to the "reconnaissance work" of the Overseas Trade Development Council and the steps to be taken to launch a successful attack on a market, the value of pooling resources and knowledge, and moving forward as a combined force rather than as detached and competing units. At the present time the trade battle was won by the strongest combination. It was the old military maxim again—the concentration of forces at the decisive point.

An exhibit of Imperial food products and raw materials, under the auspices of the Empire Marketing Board, occupies a place at the Addison Road entrance to the main hall. The exhibit as a whole is organised on behalf of the Board by the Department of Overseas Trade, and is divided into sections, each Dominion and Colony having its own self-contained stand. The Great Britain section is devoted to home produce, and the following exhibit articles of interest:—Canada (fruit and foods); Ceylon (cinnamon and cardamoms); New Zealand (milk powder, honey and kauri gum); South Africa (fruit and wines); India (spices, sauces and other products). Of the Colonies, British West Indies show arrowroot, ginger and honey; Cyprus, linseed, aniseed and flax; Gold Coast, palm oil and palm kernels; Malaya, areca nut, mace, cloves, patchouli oil, damar and papain; Southern Rhodesia, mineral products, asbestos and linseed. Facing this exhibit are

to be found, so far as we have noticed, the only seats other than those inside some of the stands. The Exhibition is so considerable a test of pedestrian stamina that the provision of a few more resting places may be suggested. In the following paragraphs we summarise our impressions of the principal stands of interest to the drug trade.

Drugs, Chemicals and Proprietaries

ALBRIGHT & WILSON, LTD., exhibit a number of pharmaceutical chemicals, phosphorus compounds and phosphates. Carbon tetrachloride capsules for fluke in sheep and cattle are on show. A large portion of the stand is taken up with silicon ester stone preservative and paint, and objects to demonstrate its application to stonework. Specimens of chemical products include also pure acid calcium phosphate and "Antelope" for aerating in the bakery trade.

BAKELITE, LTD., show a large number of articles made with Bakelite synthetic resin products, and specimens of synthetic resins for varnishes.

A. BOAKE, ROBERTS & CO., LTD., include in their exhibit a large number of metallic soaps—stearates, oleates, linoleates, palmitates, tungates—used in the paint and varnish trades, and also magnesium and zinc stearates in very fine powder for face powder manufacture. Newer products included are musk xylol, musk ketone, and phenyl ethyl alcohol, now made by a new process, enabling them to compete with foreign manufacturers. Wide ranges of colours, flavours, and flavours in powder form are shown, and also a large number of terpeneless oils, synthetics and isolates. A new product, Collabrac, is shown, which contains 60-65 per cent. lecithin, for use in the preparation of toilet soaps, shaving creams, and face creams, to which it is added to the extent of 0.25 per cent. Its incorporation increases smoothness of texture and lathering properties. For emulsifying purposes the addition is 5 per cent.—4 oz. Collabrac being equal to the yolks of twenty-five eggs.

THE BRITISH DRUG HOUSES, LTD., have one of the best and most comprehensive displays ever assembled at an exhibition. Fine chemicals have artistic possibilities which the expert B.D.H. staff have effectively exploited at Olympia, and the result is good to look upon. The capillators and comparators for PH determinations are another feature; we learn that their use is rapidly growing. Radio malt and Radiostoleum are there to represent counter trade; and such things as antiseptics, anaesthetics and organotherapeutic products are also shown.

BRITISH INDUSTRIAL SOLVENTS, LTD., show specimens of chemicals, and especially Bisol solvents for industrial purposes.

W. J. BUSH & CO., LTD., show a big range of flavouring essences, perfumery materials, essential oils and fine chemicals. Kegs of sodium salicylate, salicylic acid, Fre-flo brand aspirin, benzoic acid are on view. Harmless food colours, vanillin and coumarin "Bush" are featured. Valex baking cream and cream of tartar are also shown.

F. C. CALVERT & CO., LTD., have a well-arranged exhibit of their chemicals and proprietaries, including soaps, dentifrices, disinfectant and vaporisers. The description we gave of Messrs. Calvert's new laboratory six months ago (*C. & D.*, 1930, II, 192) indicates the precision of scientific control that goes to the manufacture of these specialities. A special display discount is announced, particulars of which may be obtained at the stand.

R. J. FULLWOOD & BLAND show Stag annatto, dairy rennet, butter and margarine colours.

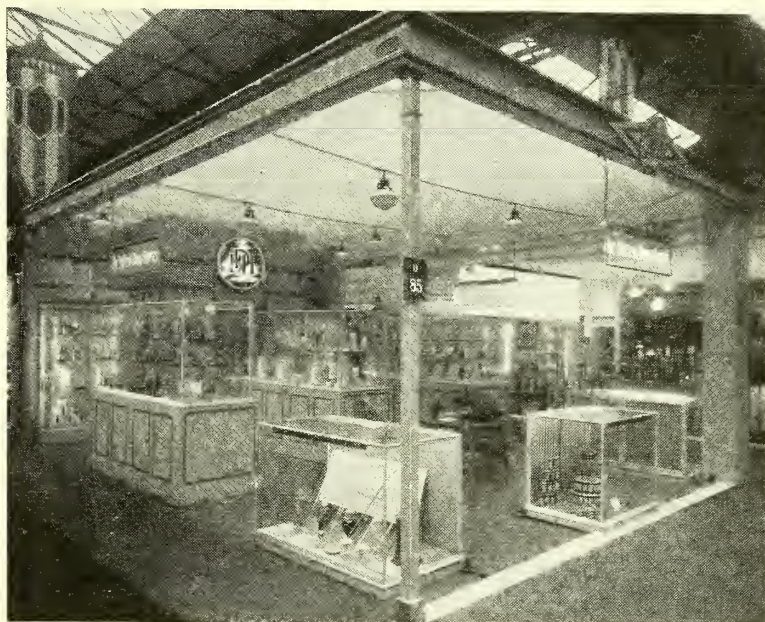
THE GENERAL CHEMICAL & PHARMACEUTICAL CO., LTD., show Oasis accumulator acid, Vulcan plating chemicals, laboratory chemicals and Judex analytical reagents.

The background of the stand of HOPKIN & WILLIAMS, LTD., is a laboratory bench showing methods of testing substances for "A.R." purity, and draws special attention to Hopkin & Williams's well-known brand of analytical reagents and to a new book of specifications governing their purity. This publication describes not only the reagents for general analytical purposes, but also several special organic compounds and a complete range of chemicals for the preparation of buffer solutions. Other showcases contain reagents and organic chemicals for research, radio-active uranium minerals and salts.

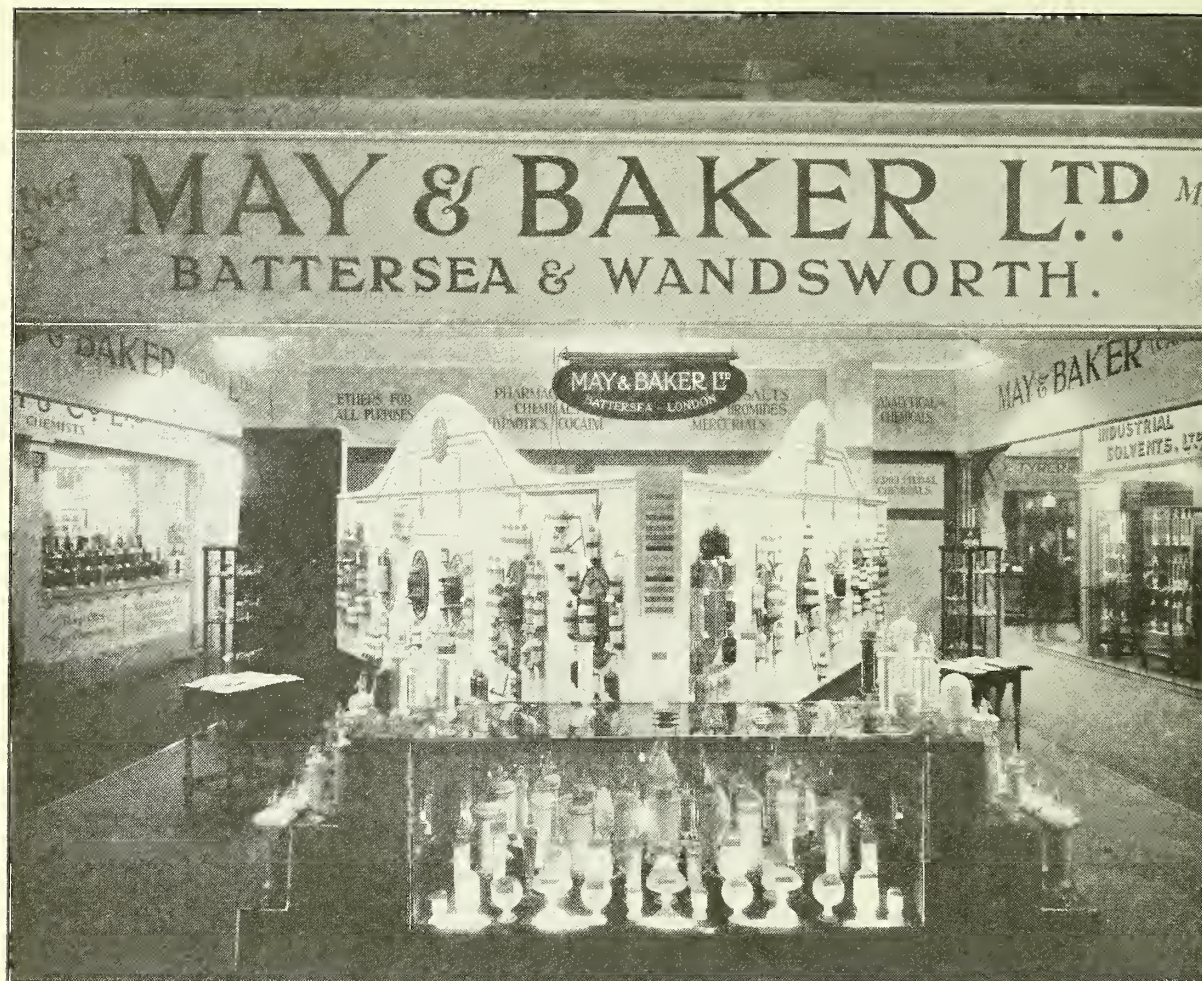
HOWARDS & SONS, LTD., have a large corner stand combining salesmanship with the display of fine specimens of drugs and chemicals, including some new ones. Prominence is given to quinine (the longer name of which is quinine bisalicylosalicylate). This salt is shown to possess the property of cutting off attacks of influenza within forty-eight hours, and, moreover, it does not leave the sufferer in the "washed out" condition that is the usual after-effect of "flu." Another valuable addition to the medical armament is Howards' optochin (ethylhydrocupreine) base, a remarkable remedy in the treatment of pneumonia, the bacteria of which it destroys. Among other new products are the only all-British make of acid lactic, B.P., and synthetic camphor—two more triumphs for British scientific enterprise. Howards' synthetic menthol and thymol are shown also, together with such old friends as aspirin and sodium salicylate.

The exhibit of the IMPERIAL CHEMICAL INDUSTRIES, LTD., takes the form of a modern building on which are placed in alcoves bold cut-out maps of the six continents. Around each map are grouped samples of I.C.I. products relating to the trade of the continent concerned, together with examples of the products of each continent in which articles of I.C.I. manufacture are used. Each map shows the centres all over the world where the associated companies of I.C.I. have factories and direct representation.

JOHNSON & SONS MANUFACTURING CHEMISTS, LTD., have a comprehensive display of pharmaceutical chemicals and packed drugs on a stand which attracts attention by reason of its general excellence. A complete range of photographic chemicals is also to be seen, while prominently displayed is a new silver prepara-



THE BRITISH DRUG HOUSES, LTD.



MAY & BAKER, LTD.

tion, Arvitin, recommended for use in ophthalmic work. Silver nitrate is shown in crystal form, in fused sticks, and in caustic points mounted and unmounted; these points are guaranteed to contain about 90 to 95 per cent. of silver nitrate. Another product of interest to the trade is Johnson's lysol, for which favourable terms are quoted.

MACLEANS, LTD., make a central display of peroxide tooth paste, and show Oslo bath salts and shampoos and other toilet preparations.

The central feature of the stand of MAY & BAKER, LTD., is a V-shaped screen on which are exhibited Planet brand products of M. & B. manufacture and the materials from which they are derived. Raw materials on each wing of the screen include mercury metal, chlorine, acetone, iodine, bismuth metal, arsenious oxide, and cadmium, sodium tungstate, bromine, camphor, citric acid and a number of drugs. The preparations in which they enter into composition, or for which they are otherwise used, surround these. Colours indicate the materials, and coloured ribbons in the form of arrows show how the derived products are built up. The pharmaceutical specialties featured in other show cases are mercurials, bismuth preparations, iodine preparations. Newer products are Halar-sol (for yaws and syphilis), Neobistovol, quinine tro-posan, vaccines of the London Lock Hospital. The trade mark, Planet Brand, is kept well in evidence.

THOMAS MORSON & SON, LTD., have this year confined their exhibit to a number of chemicals of first-class interest. The front of the stand comprises four cases containing bismuth metal, iodine, potassium

iodide, phenolphthalein, glycerophosphates, bismuth sodium tartrate, etc., and special interest attaches to an exhibit of Morson's soluble kresote in the form of a light-brown powder. This water-soluble salt possesses a slight flavour with distinctly attractive after-taste, and contains approximately 50 per cent. by weight of total creosol and guaiacol oils. A row of old-fashioned stills completes the exhibit, and serves to remind the visitor that the House of Morson is rich in historical interest.

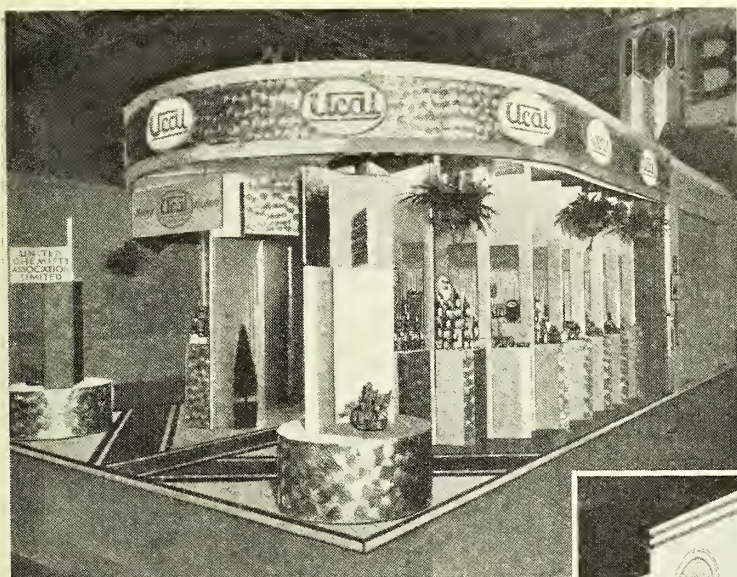
NATIONAL TITANIUM PIGMENTS, LTD., show titanium oxide and white titanium pigments for use in paints, enamels, lacquers, and in the rubber and plastic industries.

ONTARIO HONEY PRODUCERS' CO-OPERATIVE, LTD. (U.K. representative, R. & W. Davidson, Ltd., 49 Tooley Street, London, S.E.1), have an attractive display of Canadian honey from the clover fields of Ontario.

W. T. OWBRIDGE, LTD., make a neat display of their proprietaries, so well known as to make comment superfluous. Their representative in charge reports a good season, justifying optimism with regard to the future.

SCRUBB & CO., LTD., show Scrubb's cloudy ammonia and soap, and announce special window-display terms during the period of the Fair. Genoxide is also on view at this stand.

STANIFORM, LTD., make a distinctive display of Staniform and its preparations—ointment, dusting powder, lotion, and so forth. Mr. S. Jamieson, who was in charge of the stand, had a cheering account to give



UNITED CHEMISTS' ASSOCIATION, LTD.

our representative concerning the marked expansion of orders for this useful antiseptic at home and abroad. Which is as it should be.

STEVENSON & HOWELL, LTD., display Red Ball brand essences for the aerated water, confectionery and food trades.

THOS. TYRER & Co., LTD., exhibit Sterling brand chemicals, featuring bismuth preparations and mercurials. Stearates for pharmaceutical and cosmetic purposes are shown, as well as photographic chemicals, fluorides and etching fluids, and Roc embrocation. A centre showcase contains specimens of bismuth crystals and salts.

UNITED CHEMISTS' ASSOCIATION, LTD., have a stand which in design and colour scheme shows more originality than the majority at the Fair. The articles displayed cover a wide range of medicinal products, including such recent introductions as Paramalt (malt and oil with Parrish's Food), iodised throat lozenges, iodised toothpaste and glycerin thymol pastilles. Another interesting line is a confection containing honey, glycerin and lemon with ipecacuanha. The company stress the fact that the sales of their products, both at home and overseas, are confined to qualified chemists.

At the stand of VIROL, LTD., is demonstrated the making and uses of Virol, Virolax and Virol and Milk.

WHIFFEN & SONS, LTD., have the striking selection of chemicals, fine and heavy, that we expect from them on such occasions; typical examples are the range of mercurials and of bromides. Essential oils, too, are well in evidence; and another product to which prominence is given this year is Gelozone, an emulsifier derived from Irish moss and found to have many uses in pharmacy and elsewhere.

WILLIAMS (HOUNSLOW), LTD., show dyestuffs for all industrial purposes and edible colours for food products. A new colour, crispin yellow, has been introduced, as well as a legal colour for green peas.

Other exhibitors in this section include:—FREDERICK ALLEN & SONS (POPLAR), LTD. (chemicals); BEAUFOY, GRIMBLE & Co., LTD. (malt vinegar, flavouring essences, olive oil); BEMAX SALES, LTD. (Bemax); SPENCER CHAPMAN & MESSEL, LTD. (acids and crystals of sulphur trioxide); LAWES' CHEMICAL MANURE Co., LTD.; UNION JACK PASTE Co. (foot ointments); THE VERPINE Co. (Verpine antiseptic); "WEE-KURA," LTD. (head and nerve powder, Purepine Salts).

Toilet Preparations and Requisites

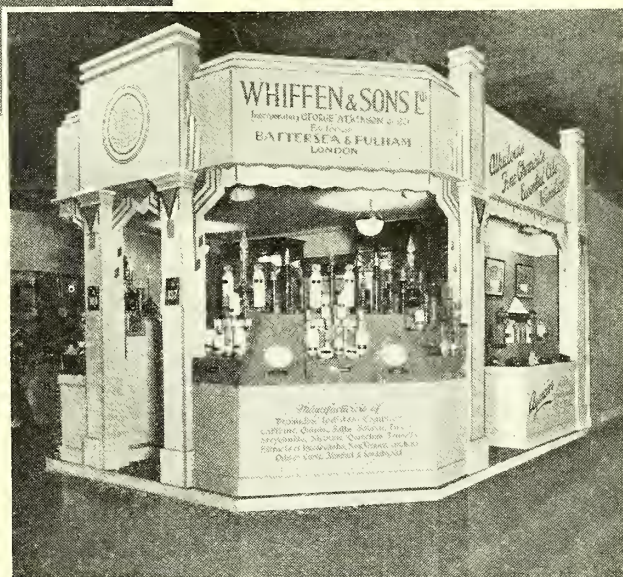
ADDIS & SON show a range of tooth-brushes in delicate colours so arranged that they cannot fail to catch the visitor's eye. A case is also devoted to a selection of

dental plate brushes and unbleached bristle tooth-brushes. Corn rasps and spatulas are also on view.

ALLWOOD BROTHERS attract the passing stranger with a bank of carnations, indicating the perfume used in their beauty series—a neat and distinctive range of which is on view.

ARTHUR BERTON, LTD., exhibit a range of rubber-proofed textile goods, including sponge bags, holdalls and camera cases, as well as a wide range of dressings, cotton-wools, lints, bandages and gauzes.

T. F. BRISTOW & Co., LTD., give prominence to their English Wallflower series of toilet preparations. Iktholine soap, as the name implies, contains ichthyol; it is presented attractively packed at competitive prices, in the form of toilet



WHIFFEN & SONS, LTD.

soap, shaving stick and shaving cream. The Floralium series of soaps, the popular Devon violets, and other products are also on view.

THE BRITISH XYLONITE Co., LTD., have an attractive display of their own products, including brushes, combs, mirrors and fancy goods. Halax ware for the dressing table is prominently featured.

COLGATE-PALMOLIVE-PEET, LTD., have an exhibit of Palmolive products in the Canadian Industrial Section.

THE COUNTY CHEMICAL Co., LTD., have staged a representative selection of their products, among which are a hair fixative and a shaving preparation known respectively as Brylcreem and Quickshave—both popular lines—and a useful household preparation in the shape of Chemico bath cleanser.

CRANBUX, LTD., have confined their display to safety razor blades—Ace of Blades. Although these blades are not so expensive as many on the market, it is contended that so far as quality is concerned they have no superior. Ace of Blades are made in strip form—a method which ensures uniformity—and the tempering process used avoids the necessity of subsequent burnishing, thereby reducing cost of production.

CUSSENS, SONS & Co., LTD., who are well known for the excellence of their displays, have this year surpassed previous efforts. The four "windows" of the stand are occupied by Old English Lavender soap, Mists of the Moon, White Cross baby powder and soap, and Jean Ravon perfumes, while inside is to be seen a comprehensive selection of the company's products.

"THE CHEMIST AND DRUGGIST" has taken Stand B84, where representatives welcome all home and overseas visitors who may be passing through the hall. Specimens of the *C. & D.* series of books and other publications are on view. The telephone number of the stand is Shepherd's Bush 1433.

DEPTFORD GLASS WORKS, LTD., show machine and hand-made bottles in neutral amber and white flint, including sprinkler top, cork-mouth and stoppered perfume bottles, screw, patent cap and chemical bottles.

G. B. MOULDINGS, LTD., who are specialists in the manufacture of articles moulded from synthetic resin, are showing some of a wide range of articles to which their products are applied, for instance, screw stoppers, tops for collapsible tubes, display stands, shaving soap bowls and holders. In each case the mouldings have been made to match or tone in with the general colour scheme, and many are highly artistic. In the course of conversation stress was placed on the importance of would-be users mentioning the nature of their preparation, as this may necessitate slight adjustment in the composition of the moulding, e.g., according to whether it is likely to be in contact with an acid or an alkali.

J. G. INGRAM & SON, LTD., have a well-assorted display of rubber goods, those of interest to the drug trade being given due prominence. Air cushions, hot water bottles, bed sheetings, bandages and many other items manufactured by this old-established house constitute a useful stand.

THE METAL BOX AND PRINTING INDUSTRIES, LTD., is a composite exhibit relating to the various articles manufactured by the associated companies, namely, F. Atkins & Co., Ltd., Barclay & Fry, Ltd., Edward C. Barlow & Sons, Ltd., The British Sure Seal Co., Ltd., E. T. Gee & Sons, Ltd., Henry Grant Boutle & Co., Ltd., I. A. Hodgson & Co., Ltd., Hudson Scott & Sons, Ltd., G. H. Williamson & Sons, Ltd. The business was founded, we were informed, in 1799, and was the first to undertake lithographic work on tin. The exhibit is a comprehensive one and of interest to all trades concerned with the packing of goods. Among the metal containers on view are a large number familiar to the drug trade. The company are also showing requisites for vanity bags and cases made of regent metal, nickel brass, etc. These articles can be supplied separately or as complete cases ready for dispatch to customers, and can be fitted with printed plaques if desired. Tins for the canning industry, for oils and varnishes, metal-wood corks (also vulcanite), showcards and cartons are other, but by no means all, the lines in which the company is interested.

The exhibit of ROBINSON & SONS, LTD., comprises practically every kind of cardboard container and carton, long experience having made Messrs. Robinson past-masters in the art of designing such selling aids.

The exhibit of the RUBBER GROWERS' ASSOCIATION (INC.) demonstrates the various forms of rubber upholstery in pneumatic and sponge rubber, rubber flooring and mats, office equipment, and miscellaneous articles in rubber and vulcanite.

WILLIAM SESSIONS, LTD., are makers of display-aids, and many instances in which they have co-operated with manufacturers connected with the drug trade are shown at their stand. The company undertake the designing and printing of showcards, price tickets, labels and similar articles. Mention must be made of their latest metal labels, which are now available in several shades as well as distinct colours. Another branch of the business is the arranging of window displays, and it is interesting to note that Messrs. Sessions realise that the drug trade

needs a neat stand showcard which, packed flat, can be enclosed with a small parcel of goods, and when erected does not take up too much window or counter space.

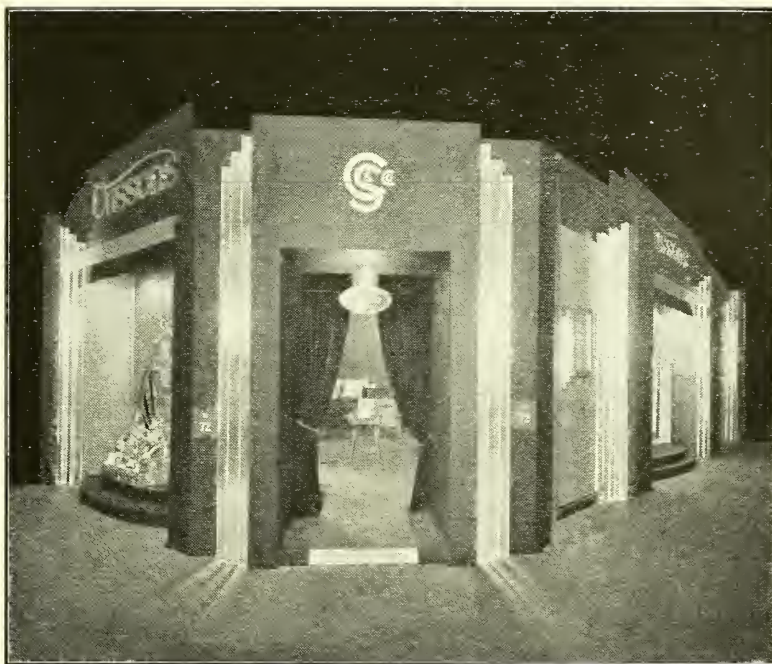
SHORT & MASON, LTD., have an exceptionally fine and comprehensive display of thermometers—clinical, horticultural, industrial, household. The last-named deserve special attention on the part of those who desire to sell a superior article. Many chemist-opticians are interested in barometers, and here again with their instruments Messrs. Short & Mason are able to offer something out of the ordinary.

THERMOS (1925), LTD., display vacuum flasks, jugs and food jars.

THE VISCOSE DEVELOPMENT CO., LTD., have a varied display of bottle caps which are shown to advantage on perfumery and other goods.

Two stands on which scientific and optical instruments are displayed house the exhibits of a number of manufacturers, including CHANCE BROS. & CO., LTD.; A. GALLINKAMP & CO., LTD.; GOWLANDS, LTD.; CHARLES HEARSON, LTD.; ADAM HILGER, LTD.; L. OERTLING, LTD.; and ROSS, LTD. J. H. DALLMEYER, LTD., who are showing a number of their still and ciné cameras, have introduced a lens-cleaning outfit which they state has proved a "best seller." ENSIGN, LTD., are showing a range of their popular cameras, and a conspicuous position is given to the Autokinecam at its reduced price.

Among other stands worth a visit are those of:—ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS; "ATTRACTA" ELECTRICAL CO. (moving and other illuminated signs); THE ATTRACTA SYNDICATE, LTD. (electrically-driven moving signs); AVON INDIA RUBBER CO., LTD.; B. BLACK & SON (industrial and research thermometers); BRITISH CELANESE, LTD. (safety celluloid); CADBURY BROTHERS, LTD. (chocolate); THE CALDICOT TIN STAMPING WORKS, LTD. (decorated and plain tin boxes, cream tins and bottle caps); THE CORRUGATED PACKING MATERIALS, LTD. (papers, containers, toilet rolls); P. B. COW & CO., LTD. (sports goods); CREPE PAPER MANUFACTURING CO., LTD. (papers, paper handkerchiefs); DENNIS & WEBB, LTD. (brass seals, rubber stamps); THE DOWNSING RADIANT HEAT CO., LTD. (medical appliances, including the Solarium electric sunbath); THE ECONASIGN CO., LTD. (printing outfits); THE EMBOSS-IT CO., LTD. (showcard machines); T. B. FORD, LTD. (filter-papers, blotting papers, inks);



CUSSONS, SONS & CO., LTD.

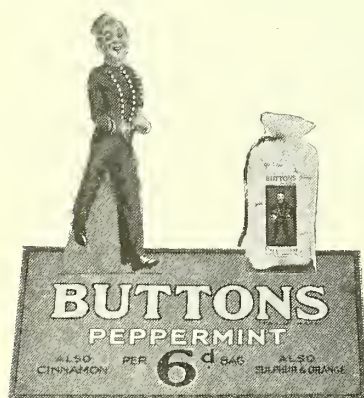
FRANCO-BRITISH ELECTRICAL CO., LTD. (Franco luminous signs); E. T. GEE & SONS, LTD. (decorated metal boxes for foodstuffs, powders and paints); A. D. HARRIS, LTD. (advertising tapes); HUDSON SCOTT & SONS, LTD. (showcards, advertising tablets); THE KAY SPORTS CO. (juvenile chemistry outfits in various sizes); LANGLEY & SONS, LTD. (posters and catalogues); F. H. MARLOW (advertisement lantern slides, showcards, posters); MOORE'S MODERN METHODS, LTD. (office systems and appliances); THE NEW CROYDON RUBBER CO. (hot water bottles); NORMAN & HILL, LTD. (loose leaf filing system); ORANGE-CRUSH CO. (LONDON), LTD. (fruit extracts and syrups); PACKS (1925), LTD. (containers); F. T. PILLIVANT, LTD. (cardboard containers, cartons); STRAND AND INTERCHANGEABLE SIGNS, LTD. (electric signs and flood lamps); UNIVERSAL SEAMLESS CONTAINERS, LTD. (wood-pulp containers); V. K. ROTARY CO., LTD. (Grip-fix paste).

Cotton Textile Section

THE British Cotton Textile Exhibition, organised by the British cotton industry as a section of the British Industries Fair, is located at White City, Shepherd's Bush, London, W.12. One of the principal exhibits of interest to the drug trade is that of The Empire Marketing Board, which is divided into sections on the lines of the corresponding exhibit at Olympia. The Board's section includes a comprehensive display of raw cotton with a collection of photographs depicting scenes in the various Empire cotton-producing countries. Individual displays are also arranged by certain of the Dominions and Colonies. Other exhibits of interest include a display of surgical dressings, wool and rubber-proofed textile goods by ARTHUR BERTON, LTD.; surgical silk by EDWARD MACBEAN & CO., LTD.; and surgical dressings by ROBERT BAILEY & SON, LTD.

Trade Notes

DELIVERY PROBLEMS.—The Raleigh Cycle, Ltd., Nottingham, have brought out a new delivery van which merits attention since it has all the advantages of a four wheel vehicle, but is less expensive in every way. Special bodies can be built to suit individual requirements.



BUTTONS is the trade-mark of Thompson & Capper Wholesale, Ltd., Manesty Buildings, College Lane, Liverpool, for tablet preparations of the nature of sulphur and orange, peppermint and cinnamon. The tablets are nicely packed in bags of transparent tissue and the attractive stand depicted here is supplied for display purposes.

HALEX TOOTH BRUSHES.—The British Xylonite Co., Ltd., Hale End, London, E.C.4, are offering a bonus on certain orders for tooth brushes if placed prior to March 31.

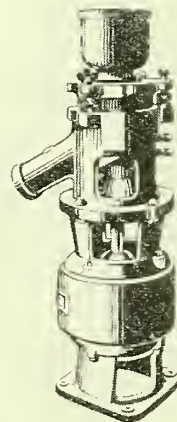
ELECTRIFIED HAIR BRUSH.—Lectra Ray Products, Ltd., 3 Fleet Lane, London, E.C.4, have a coloured inset in the advertisement pages of this issue calling attention to their Lectra Ray hair brush. The batteries are contained in the back of the brush, which is made of mottled bakelite, and the current is conveyed to the roots of the hair by fine bronze strands interspersed among the bristles. A testing lamp is supplied with each brush. Each outfit is packed in a case covered in imitation crocodile material and boxed singly in a cardboard outer. A multi-coloured showcard is available.

IRVINGS SEA-VITIDS, LTD., Throgmorton House, Copthall Avenue, London, E.C.2, give on another page particulars regarding a window display bonus in connection with their well-known proprietary.

EVANS SONS LESCHER & WEBB, LTD., 56 Hanover Street, Liverpool, have lately introduced two new lines which should be welcomed by many customers at this time of year. Rheumeze brand ointment is packed in tins, enclosed in cartons of unusual design. A pamphlet describing its uses is enclosed in each carton, and twelve are packed in display outers. The showcards supplied are original. Under their Elco brand the company has placed on the market a medicated pastille as Icnets, a registered name of iodised menthol pastilles. These pastilles are made from a well balanced formula and should prove efficacious in cases of sore throat, catarrh, ulcerated mouth, and similar conditions. They are packed in decorated oblong tins, and show material is provided.



PHARMACEUTICAL MACHINERY.—Unusual interest was aroused by the article on "Applied Pharmaceutics" in this year's *C. & D. Diary*. A recent addition to the pharmaceutical machinery therein described is the 5 in. Premier paste mill, a development of the Premier colloid mill. This newer model is directly coupled to motor revolving at 3,000 r.p.m. There are two working surfaces, one rotating and the other fixed, and the clearance between the two can be adjusted by means of a micrometer head with absolute precision to a one-thousandth part of an inch. All contact parts are lined with nickel by means of the Fescol (electrolytic) process, or, alternatively, in any other metal to suit user's requirements. The head of the machine is fitted with a water jacket which can also be used for low pressure steam. The unit is designed to handle viscous fluids and semi-pastes and is to be recommended for materials such as printing inks, textile printing pastes, leather dressings, boot polishes, food products, cosmetics, shaving creams, face pigments, lip sticks and general perfumery products. The



manufacturers are Burt, Boulton & Haywood, Ltd., Salisbury House, London Wall, London, E.C.2.

EASTER NOVELTIES.—Vinolia Co., Ltd., Bebington, Cheshire, illustrate elsewhere in this issue a number of the soap Easter novelties which they are offering.

The attractive cut-out showcard, of which a photograph is given below, is being issued by Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.



Particulars of these tablets and other useful information relating to the company's lines are given in an interesting publication called the "Ayrton Touch," a copy of which will be sent to any chemist or assistant who writes for one.

CORN CURES.—A. de St. Dalmas & Co., Ltd., Leicester, point out that spring is the time to push corn cures, of which they are offering a wide variety.

THE ART OF MAKE-UP.—L. Leichner (London), Ltd., 11 Pollen Street, Regent Street, London, W.1, have recently issued a new edition of their informative booklet entitled "Every Woman Beautiful." This publication illustrates the enhanced effect obtainable by the proper



use of cosmetics and explains how such preparations should be applied. Chemists who are anxious to make the most of their business in these toilet accessories will find it of value to study this brochure and to pass copies of it to their lady customers. It is supplied free of

charge. The preparations referred to are of course those of Messrs. Leichner, but the booklet is different from many of the advertising pamphlets usually supplied under this guise. As to the cosmetics themselves—powder, cold cream, removing cream, rouges, lipstick, eyebrow pencil and others—they are attractively packed and in a colour scheme which is familiar to everyone connected with the drug-trade.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1931, p. 345.

(From "The Trade Marks Journal," January 28, 1931.)

- "ABRACOL"; for manufacturing chemicals (1). By A. Boake, Roberts & Co., Ltd., 100 Carpenter's Road, Stratford, London, E.15. 517,523. (Associated.)
- "COZAL"; for disinfectants. By G. Hill, 43 Streatham Common North, London, S.W.16. 517,697.
- "MINIFOOD"; for agricultural chemicals (2). By United Chemists' Association, Ltd., Priory Court, London Road, Cheltenham. 518,775.
- "CHIKOLIN"; for medicines for animals (2). By H. J. Taylor, 3 Byron Street, Moor Lane, Preston. 518,901.
- "ACMULSE"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 518,386. (Associated.)
- "EUVITOL"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C.3. 518,681.
- "RESRU" incorporated in seal design; for a rheumatism remedy (3). By Rachel Baker, 174 Winwick Road, Warrington, Lancashire. 518,738.
- "PASSIORINE"; for medicinal chemicals (3). By G. Reaumur, 2 Rue Boucicault, Paris, France. 518,799.
- "FARINA GEGENUBER" with label design incorporating flower device; for all goods (47) and (48). By Johann Maria Farina Gegenüber dem Jülicher Platz, Gegenüber dem Jülicher Platz, Cologne, Germany. 517,408/409. (Associated.)

(From "The Trade Marks Journal," February 4, 1931.)

- "GLYPSOL"; for chemicals (1). By British Dyestuffs Corporation, Ltd., Hexagon House, Blackley, Manchester. 516,626. (Associated.)
- "ANTOXA"; for chemical oxidation preventives (1). By Cuxson, Gerrard & Co., Ltd., 26 Fountain Lane, Oldbury, Worcestershire. 518,343.
- "LITTLE SECRET"; for mineral dyes (1). By The United Indigo & Chemical Co., Ltd., Union Buildings, Chapel Walks, Manchester. 519,223.
- "POLEFINAL"; for all goods (1). By I.G. Farbenindustrie A.G., Mainzerlandstrasse 28, Frankfurt-on-Main, Germany. 518,709.
- "IODOPLAST"; for medicated plasters (3). By The Standard Tablet Co., Ltd., Newtown Road Extension, Hove, Sussex. 517,066.
- "EPHREGEL"; for inhalants (3). By Evans Sons Lescher and Webb, Ltd., 56 Hanover Street, Liverpool. 517,923. (Associated.)
- "VAPETS"; for medicinal chemicals (3). By T. Kerfoot & Co., Ltd., Oldham Road, Bardsley, Lancashire. 518,137. (Associated.)
- "ROZLOT"; for medicated lotion (3). By Harriet Wilson, 56 Vincent Crescent, Chesterfield, Derbyshire. 518,667.
- "DUO-VITS"; for medicinal preparations of yeast (3). By J. Keegan, 43 Hathershaw Lane, Oldham. 518,836.
- "BYMESTON"; for medicinal chemicals (3). By Lamberts Prorace, Ltd., 90 Cannon Street, London, E.C.4. 519,243.
- "FREELACTA"; for an antiseptic jelly (3). By H. Freese, 32 Great Dover Street, London, S.E.1. 519,305.
- "TOKEN" with design; for goods (47) and for perfumery etc. (48). By Cassons, Sons & Co., Ltd., Moor Lane, Kersal, Manchester. 518,678/679. (Associated.)
- "ARTWITE"; for a toilet preparation for restoring whiteness to hair (48). By Stewart, Goodall & Dunlop, Ltd., 141 West George Street, Glasgow, C.2. 515,851.

Births

Notices for insertion in this column must be properly authenticated.

STURTON.—At 18 Ellerdine Road, Hounslow, on February 14, Lilian (*née* Wilmott), wife of G. A. Sturton, M.P.S., of a daughter.

Marriages

BURNETT-DAVIS.—At Abington Church, Northampton, on February 17, Harold Charles, only son of Mr. C. J. Burnett, chemist and druggist, Northampton, to Ruby Phyllis Davis.

LEVY—COHEN.—At the Synagogue, Stockton-on-Tees, on February 10, Victor Wilfred Levy, chemist and druggist, Middlesbrough, to Esther Cohen.

Deaths

EYNON.—At 35 Wilkinson Street, Sheffield, recently, after a long illness, Mr. Charles James Eynon, chemist and druggist, aged seventy-three.

DEVITT.—At Coldshott, Oxted, Surrey, on February 18, Mr. Andrew Devitt (chairman of Lewis & Peat, Ltd., produce brokers, 6 Mincing Lane, London, E.C.3), aged eighty.

HANCOCK.—At 12 Hyde Park Terrace, Plymouth, on January 13, Mr. Philip William Hancock, chemist and druggist, aged thirty-seven.

HINSON.—In Fulham, London, S.W.6, on February 9, Mr. Thomas Herbert Hinson, chemist and druggist, Gosberton, aged twenty-nine. Mr. Hinson served his apprenticeship to Mr. E. H. Judge, chemist and druggist, Bourne; after being a dispenser in the Children's Hospital, Great Ormond Street, London, W.C.1, he established his own business at Gosberton five years ago. For a few weeks past he had been under treatment at the Brompton Hospital.

HUMMEL.—On February 15, after a brief illness, the wife of Mr. S. H. Hummel, representative of Ayrton, Saunders & Co., Ltd., manufacturing chemists, 34 Hanover Street, Liverpool, aged forty-four.

LAWRENCE.—At 4 John Street, Oban, on February 13, Mr. Samuel Lawrence, retired chemist and druggist, late of Lawrence & Shepherd, chemists, aged seventy-two. Mr. Lawrence was in business at Oban for forty-four years, having commenced in 1882. Branch retail businesses were opened at Jaynault and Stornoway. This latter business he sold to Mr. W. J. Tolane, M.P.S., in 1902, and in 1921 he entered into partnership with Mr. John L. Shepherd, M.P.S. They then acquired the two retail businesses conducted at Oban by Alex. Robertson & Sons, Ltd. Mr. Lawrence retired in 1926, and contributed an interesting and racy article to THE CHEMIST AND DRUGGIST on his business experiences. He was a member of the Oban Town Council for eight years and also a magistrate. He served on the Parish Council for a period of years. He was a prominent freemason. The funeral, which took place with masonic honours on February 16, was largely attended. Among the mourners were Mr. Robert Lawrence, M.P.S. (eldest son), Chapeltown, Sheffield, and Mr. John L. Shepherd, in addition to representatives of public bodies. Mr. Lawrence is survived by a widow, three sons and three daughters.

McPHERSON.—At Norton-on-Tees, recently, Mr. Alexander McPherson, late works manager to Duncan, Flockhart & Co., manufacturing chemists, Edinburgh and London.

WORTHINGTON-EVANS.—At his residence, 6 Eaton Place, London, S.W., suddenly, on February 14, the Right Hon. Sir Laming Worthington-Evans, Bt., G.B.E., M.P. Sir Laming was the son of the late Worthington Evans, of Evans & Phillips, solicitors, Coleman Street, London, and himself became senior partner of Worthington-Evans, Dauneay & Co., solicitors, King William Street, E.C. His grandfather, John Evans, who was born in 1787, was the founder of the London and Liverpool business, now Evans Sons Lescher & Webb, Ltd. Sir Laming at the age of forty retired from practice in the City to enter public life, and in 1910 became Conservative M.P. for Colchester, and while the National Insurance Act was going through Parliament he proved himself one of the ablest commentators on the principles of the measure. Subsequently and during the war he held many public offices, including Secretary of State for War in 1921-22, during which period he unveiled the memorial to the late Colonel E. F. Harrison at 17 Bloomsbury Square, W.C.1. Sir Laming was familiar with the drug trade, and it is interesting to recall that his father was legal adviser on trade matters to THE CHEMIST AND DRUGGIST and its subscribers over sixty years ago.

Personalities

COUNCILLOR E. C. LAST, chemist and druggist, Watford, has been elected president of the local tradesmen's association.

COUNCILLOR C. A. CRITCHLEY, J.P., Ph.C., Blackburn, was elected president of Lancashire Automobile Club, on February 9.

MR. R. H. HANDS, chemist and druggist, Bourne-mouth, has been elected a member of the committee of the Charminster Traders' Association.

MR. C. STONELAKE, chemist and druggist, Guernsey, has been appointed Channel Islands representative of the Camping Club of Great Britain and Ireland.

MR. P. C. MAGNUS, president of Magnus, Mabee & Reynard, Inc., New York, has been elected chairman of the Drug and Chemical Section of the New York Board of Trade.

NOTICE is given in "The London Gazette" that John Victor Bannehr, M.R.C.S., L.R.C.P., Oak Cottage, Briar Hill, Purley, has assumed the name of John Victor Banner by deed poll.

MR. A. C. CANNON, F.B.O.A., chemist and druggist, Truro, who has been a freeman of the Worshipful Company of Spectacle Makers since 1913, was recently admitted a liveryman of the Company.

MR. JOHN CAMERON, Ph.C., of the Pharmacy Department, Peking Union Medical College, who is at present on a visit to this country, is leaving England on February 21 for a two months' tour on the Continent. Mr. Cameron will be leaving Europe for China on April 25.

ALDERMAN J. H. WEBB, chemist and druggist (Wootton & Webb, chemists), Luton and Harpenden, lectured at the Hitchin Wesley Guild, recently, on "Mendelssohn and his music," this being the second lecture of the kind Mr. Webb has given to this organisation.

CERTIFICATES OF NATURALISATION have been granted to J. S. Alman, medical practitioner, 71 Amhurst Road, Hackney, London; S. Behrman, medical practitioner, 49 St. Gabriel's Road, Willesden, Middlesex; Annie H. Halperin, dental surgeon, and Rachel Halperin, medical practitioner, 37 Tanza Road, Hampstead, London; M. M. Kokia, medical practitioner, Westminster Hospital, Broad Sanctuary, Westminster, London; S. Leider (known as Sidney Arthur Leader), physician and surgeon, 18 Lonsdale Gardens, Ilford, Essex; L. Levy, dental surgeon, 113 Duke Street, Southport.

Observations and Reflections

By Xrayser III

Four Subjects

you enumerate, each of which may well constitute a grave crisis (*C. & D.*, February 14, p. 182), and they are not the only matters that emphasise the necessity at the present time of unity in our ranks. But simultaneous consideration of only those four subjects, even perfunctorily, should suffice to make chemists and druggists realise what serious difficulties they are up against, and how essential it is that they should be working harmoniously together, instead of bickering about more or less trifling differences of opinion. This is no time for discussing the proposed formation of new organisations, or territorial representation, or any other fad. What is required is that our existing representative bodies should be on the alert and prompt to take action in defence of our interests, from whatever quarter attack may be threatened. Both the Pharmaceutical Society and the Retail Pharmacists' Union are concerned in each of the four subjects to which you direct attention; and the wisest course would appear to be that they should agree to act in unison with regard to them, and then proceed to take action quickly in ways likely to be most fruitful in results of definite value to pharmacy. Resistance of the stoutest should be offered to all attempts at encroachment, whether by State officials, public health cranks, hospital economists, or others, particularly when it can be shown, as there should be little difficulty in doing, that the proposed encroachments are opposed to the best interests of the British public.

Shop Conditions

would appear to be capable of improvement so far as some chemists' shops in the City of London are concerned (p. 172), but it is not clear to me that Dr. Willoughby visited a sufficient number of pharmacies before preparing his statistics for the Select Committee. If not more than ten chemists were visited it seems to me absurd to quote percentages of places where ventilation, lighting facilities, sanitary requirements, etc., were deficient. At the same time, it appears obvious that much is left to be desired in the arrangements for the convenience and comfort of assistants in many chemists' shops, particularly when the long hours of service are taken into consideration. Evidence opposing the limitation of chemists' assistants' hours to forty-eight per week has been submitted to the Select Committee by the chairman and the secretary of the Retail Pharmacists' Union (p. 171), and I regret to find that this was, on the whole, unsympathetic to the assistants' case. Mr. Marshall said the maximum number of hours for the assistants was sixty-four per week, while the R.P.U. statement gave the general average as not exceeding fifty-four hours, and added that the principal economic effect of a statutory forty-eight hours week would reflect itself in the lower wages of assistants. As might have been expected, much was made in the R.P.U. statement of the difficulty presented by the requirements of the National Health Insurance dispensing service, but what one would like to see would be similar special pleading by a body adequately representing the assistants. Might not a good case be presented for the payment of overtime for all service over the forty-eight hours per week?

The Attitude

adopted by most people towards old books and the lovers of them is generally that of a mild or even a pitying tolerance. If by any chance they display an interest in an old work it is in the way of a surprise at its age, with some wonder that for two or three hundred years it has survived the attacks

of time. Old books are really interesting in other aspects—I make these remarks in connection with the recent exhibition of them at Bloomsbury Square (p. 185)—and more particularly in two aspects, namely, (a) that they are the chief means by which we may catch the spirit of the times in which they were written, that is to say, to the historian they are indispensable; (b) they are of the greatest value for biographical purposes, inasmuch as they are the effluence of the personality of the writer. To estimate the value of an old book by its age and its scarcity, which generally determines its monetary value, is to show oneself indifferent to historical and biographical knowledge. An illustration of these remarks is now in my hand. It is a little book, not by any means well known, a mere duodecimo not likely to find a place by the side of the fine herbals sought by the book collector; but it well serves to bear out the two observations I have made. The title page reads:—"The London Dispensary reduced to the practice of the *London* Physicians, Wherein are contained the Medicines both Galenical and Chymical that are now in use. Those that are out of use are omitted: And such as are in Use and not in the *Latin* Copy are Added. . . . by John Pechy, of the College of Physicians, London, 1694." This is, then, a handbook of the Pharmacopoeia (with additions) in the vernacular, and is produced by a follower in this respect of Nicholas Culpeper, but the author was a regular physician. The biographical value is not inconsiderable. William Munk, in his Roll of the Royal College of Physicians, only devotes about six lines to Pechy, and says nothing about his literary achievements. Pechy wrote a small herbal (1694-1707), "the compleat midwife's practice" (of this at least five editions appeared), a treatise on children's diseases, and "The Store-house of Physical Practice" (1695) as well as the book now mentioned. Quite a considerable output for a busy London practitioner.

For the Light

it throws on the galenical pharmacy of the seventeenth century it is most interesting, because the practical physician gives details of procedure beyond what are found in most of the books of his time. The following examples provide a view of the laboratory work of the dispensary. "Preparation of Earth Worms—Slit the Worms in the middle and wash them clean in Wine, then dry them, and keep them for Use." "The Preparation of Millipedes—Put Millipedes cleansed into a new earthen pot, place them in a warm Oven after the bread is drawn, that by the moderate heat they may be dried, and reduced to powder." It will be noted that the pot must be new and that the required heat is specified as that of the oven at a definite temperature. A further instance must suffice; it deals with an article now quite popular under the name of *adeps lanae*. "The way of preparing *Oegypus*: Take of wool uncleansed, sheared from the neck huckle-bone, and shoulder-pits of tired Sheep, pour upon it hot water often, and wash it well, till all the fat swims upon the water; afterwards press out the Wool, and the fat and filthy water must be poured high from one vessel to another till it becomes frothy; then you must let it stand till the froth goes off; then take off the fat that swims upon the water; then pour the water from vessel to vessel as before until it again froths and remove the fat; repeat this process till no more froth and fat appear, then wash all the fats with the froth in clean water, stirring it about with your hand, and change the water often, till the filth is washed away, and till the fat does not bite the tongue, keep it in a clean thick earthen vessel in a cold place." All Pechy's instructions are given with great exactitude.



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Editorial Articles

Britain's Shop Window

SUCCESSFUL as have been the more recent exhibitions designated the British Industries Fair, a tour of the one which opened at Olympia, London, W., on February 16, leaves the impression that it is larger, better organised, and superior in every way to its predecessors. In addition to Olympia—where larger accommodation is afforded this year—there is being held a Cotton Textile Exhibition at the White City, London, W., and an Artificial Silk Exhibition at the Albert Hall, Kensington. In a time of trade depression this must surely be typical of the spirit that built the British Empire! That the chemical section is housed at Olympia is a matter for congratulation, as we have vivid recollections of the chilly atmosphere of a previous venue, and at least one occasion when a "woollens exhibition" would have been more appropriate, despite enormous gas fires over the week-end. Olympia, too, enables the arranging of a more compact exhibition, a matter of some importance to those of us connected with the

drug trade and its ramifications. The chemical industry is well represented, and the new materials shown include metallic soaps, antiseptics, lactic acid of the highest quality (manufactured on a commercial scale), and a new and "legal" colouring matter for green peas. Eleven of the seventeen main trade groups at Olympia are greater in area than last year, but this does not include the chemical section, which shows a reduction in the number of exhibitors, compared with 1930, the area of stands in square feet being a decrease from 10,282 in 1930 to 8,924 square feet this year. The displays in the druggists' sundries section, too, have diminished both in number and area. In the scientific and optical section the number of exhibitors remains the same, but an increase has to be recorded in area of stands. The plastics section—a new section—has eighteen exhibitors with an area of 2,452 square feet, and the disappearance of one of the leading manufacturers from the chemical section resulted in the showing of phenols for use in the plastics industry at the stand of a well-known synthetic-resin concern. A regular visitor is struck by the fact that several exhibitors seem content to show the same articles year after year and in the same manner. Surely a change in the methods of presentation to the buying public could be attempted. A fault that may be found with some manufacturers is that they attempt to show too many products, and it is only in a few instances that the stands are divided into specialised sections. Two recent developments which appear to be present to a greater degree this year are moulded articles from synthetic resin and automatic machines, while so far as one can judge from the cutlery section, only the boldest and bravest men use "cut-throat" razors in these days. In any case, whether it be on the score of quality or price, the safety razor blade manufacturers can meet the demands of the most exacting. Toilet accessories allow plenty of scope for ingenuity and some manufacturers have indeed given rein to their imaginations. In this connection it is only just that a bouquet should be awarded to the powder puff designers. Prior to the war France was the principal maker of these articles, but in recent years there has been established in this country an important industry which has not on the whole received the recognition its efforts deserve. In the best quality article the superiority of the British product is particularly marked, and though a National Mark scheme is perhaps hardly justified there seems no reason why the manufacturers should not afford the British miss (and matron) the satisfaction of the knowledge that she is powdering her nose with a British-made article. The display of advertising devices shows that Piccadilly has a rival—if only a temporary one. We take this opportunity of calling the attention of our subscribers and others interested to the fact that THE CHEMIST AND DRUGGIST has again taken a stand in the chemical section (No. B 84, Telephone No. Shepherd's Bush 1435); it is hardly necessary to add that trade visitors will be welcome. In particular we hope that visitors from overseas will make themselves known to our representatives.

Position of Gum Acacia

THE extraordinary situation created in Sudan gum acacia during the past two years, which resulted in such extremely high prices being realised, makes the position of the commodity of special interest to consumers. Prior to the year 1929 gum acacia was one of the few Mincing Lane commodities where price fluctuations during the course of the season were few and far between. When it is realised that this gum usually fluctuated 6d. to 1s. per cwt. on the shipment market, and a 2s. rise or fall was regarded with significance, it is somewhat remarkable to record that in the early part of last year it rose by 42s. 6d. per cwt. in the course of barely a fortnight. Dealers both here and in the principal consuming centres abroad are, at any rate, relieved to find that the market has settled down to more normal conditions during the past few weeks. At present the market is fully steady in the neighbourhood of 40s. per cwt. c.i.f. for new crop cleaned Kordofan sorts, whilst spot has been realising between 47s. and 50s. per cwt. Compared with the price of 92s. 6d. per cwt. c.i.f. ruling at the same period last year, it clearly illustrates the remarkable change that has come over the article. We give below some interesting figures, showing the exports of acacia from the Sudan during the months of January to November last year, in comparison with those over the corresponding period of 1929:—

Destination	1929	1930	Difference in 1930	
	Total	Total	+	—
Great Britain	2,877	3,625	748	—
U.S.A.	3,746	3,498	—	248
France	2,365	3,127	762	—
Germany	3,089	2,916	—	173
Italy	928	1,347	419	—
Belgium	859	1,150	291	—
Japan	391	681	290	—
Spain	189	341	152	—
Holland	406	523	117	—
Denmark	15	16	1	—
Norway and Sweden ..	100	332	232	—
Egypt	58	128	70	—
Australia and New Zealand	414	507	93	—
China	144	288	144	—
Canada	20	56	36	—
Argentina	46	33	—	13
Brazil	25	35	10	—
Uruguay	7	5	—	2
Finland	27	27	—	—
British India	84	33	—	51
Other countries in America	24	32	8	—
Other countries	37	87	50	—
Total tons	15,851	18,787	3,423	487
			+ 2,936	

Regarding future prospects, it is rather difficult to visualise the general situation, inasmuch as the demand abroad since the opening of the new crop is quite an unknown factor. As far as the United Kingdom is concerned, we have witnessed a noticeable falling off in the demand this season, which may be attributable to several factors. This falling off is somewhat significant, and cannot wholly be put down to the present world-wide depression, but to a more important factor, viz., the unprecedented extreme values of the past two seasons. We have consistently pointed out that these high prices would undoubtedly lead to substitutes being used by consumers in place of the gum, and during last year many dextrin and other compositions were found equally suitable for certain purposes where the gum was formerly utilised. It is an acknowledged fact in all commodities that abnormally high prices always lead to a restricted consumption and the general use of substitutes. It remains to be seen, now that values are more on a par with general conditions, whether consumers will again come into the market.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on February 10, Mr. Denis J. Nugent (president) in the chair. The following members of the Council were present:—Dr. Michael Ryan, P.C. (vice-president), Mr. Patrick Brooke Kelly (treasurer), Dr. J. A. Mitchell, Sir Thomas Robinson, Messrs. M. J. Kieran, David Warwick, Joseph Gorry, P. Liston, P. D. Larkin, P. Kieran, T. J. Doyle, T. Costello, James McCormack, P. A. Brady and J. J. Roche. Mr. J. J. R. Kerr (registrar) was in attendance.

VOTES OF CONDOLENCE

The PRESIDENT referred to the death of Mr. J. J. McMahon, M.P.S.I., Limerick. Mr. McMahon, he said, was a personal friend and a friend of his family, and it was with great regret that he heard of his death.

On the motion of the VICE-PRESIDENT, seconded by the TREASURER, a vote of condolence with the relatives of Mr. McMahon was passed in silence.

The registrar submitted a communication from Mrs. Bourchier Hayes and family, acknowledging the Council's vote of condolence on the death of Dr. Bourchier Hayes.

CHANGES OF NAME

The registrar submitted letters from Mrs. Nora Harrison, L.P.S.I. (*née* Dooley), Mrs. Christina Gilmar-ton, L.P.S.I. (*née* Loftus) and Mrs. Eva McElwel, L.P.S.I. (*née* Hartigan) submitting marriage certificates and requesting that their names be changed in the Register.

CHANGES OF ADDRESS

The following notified changes of address:—Mr. James Michie, M.P.S.I., to 2 Alma Road, Monkstown, co. Dublin, and Mr. A. Morrow, L.P.S.I., to 22 Church-town Road, Rathgar, Dublin.

SUBSCRIPTIONS TO THE BENEVOLENT FUND

The registrar submitted a letter from Mr. J. J. Roche, M.C.P.S.I., treasurer of the Dinner Committee, enclosing for the Benevolent Fund a cheque for £5 10s., balance of proceeds from the annual dinner. A vote of thanks was accorded to Mr. J. M. Winckworth, M.P.S.I., Mullingar, who subscribed £1 1s. to the Fund.

REPORTS OF DEATHS

The registrar submitted reports on the deaths of Mr. J. J. McMahon, M.P.S.I.; Mr. Thomas May, chemist and druggist; and Mr. R. T. Heron, Ph.C.

REPORTS OF EXAMINERS

The registrar submitted reports of the Examiners in reference to the January examinations, from which it appeared that for the Licence examinations 51 candidates entered, 4 withdrew, 47 presented themselves, 19 were successful, 2 passing with honours, and 3 candidates received sufficient marks to qualify them as Pharmaceutical Assistants. For the Pharmaceutical Assistants' examination 9 candidates entered, 1 withdrew, and 8 presented themselves, of whom 3 passed. Three candidates presented themselves for the Registered Druggist examination, of whom 1 passed. Eighteen candidates entered for the Preliminary examination, 1 withdrew, and 17 presented themselves, of whom 7 passed.

THE LEGISLATIVE SUBCOMMITTEE

The VICE-PRESIDENT moved, in accordance with notice of motion, and Mr. BRADY seconded: "That the following members of the Council be elected to the Legislative Subcommittee: J. J. Roche, P. Larkin and

Michael Kieran." It was agreed: "That the Legislative Subcommittee consist of the whole Council."

PAID OFFICIALS AND COUNCIL MEMBERSHIP

The VICE-PRESIDENT moved, in accordance with notice of motion:—"On and after June 1, 1931, no paid official of the Pharmaceutical Society of Ireland should be eligible for nomination to, or sit on, the Council until a period of twelve months shall have elapsed from his or her ceasing to hold his or her paid office." They were aware that the Society's regulations prohibited the registrar and their examiners holding office and being members of the Council at the same time. But demonstrators, lecturers and professors were not debarred in the same way. As a matter of fact, one of their latest regulations, that of March 1930, provided that a candidate should have ceased to be a member of the Council for twelve months before he became eligible for an examinership. In addition to the fact that it would be most injudicious that officials should be members of the Council, there seemed to be no reason for the existing state of affairs, which discriminated between officials. With a view to remedying this matter he moved the resolution.

Mr. P. KIERAN seconded, and, after a discussion, it was decided to omit the words "or sit on," and the resolution with these words omitted was passed.

ELECTION OF PHARMACY EXAMINER

On the motion of the VICE-PRESIDENT, seconded by the TREASURER, Mr. George C. Hewson, M.P.S.I., Ballina, co. Mayo, was elected pharmacy examiner. There were nine candidates.

ELECTIONS AND NOMINATIONS

On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, the following were elected to membership:—Mr. G. B. Graham, Ph.C., 264 North Circular Road, Dublin; Mr. J. A. Potter, Ph.C., 6 Bath Avenue, Sandymont, Dublin; Mr. Wm. Smullen, Ph.C., c/o Solway Frères, 11-11A Fishamble Street, Dublin.

On the motion of Mr. LARKIN, seconded by Mr. P. KIERAN, Mr. Wm. Joseph Mooney, Ph.C., Dundalk, was nominated for membership; and on the motion of Mr. LARKIN, seconded by Mr. GORRY, Mr. P. Hanley, Ph.C., c/o White's Medical Hall, Fermoy, and Mr. P. McMahon, Ph.C., 8 William Street, Limerick, were nominated for membership.

Presentation to Mr. P. A. Brady

A pleasing function followed the ordinary business of the Council—the presentation of a silver tea service to Mr. P. A. Brady, secretary of the Dinner Committee, in recognition of his successful work with the organisation of the event.

The PRESIDENT, in making the presentation, said he thought they would all agree that the dinner had been an outstanding success. (Hear, hear.) The number who attended was almost a record, and it was also remarkable for the very pleasant feeling that permeated the whole function. A great deal of its success was due to Mr. Brady's organisation, and they thought they would give him a souvenir of the happy event.

Mr. BRADY: I did only what should be expected of one. I did my best to make the dinner a success. And any credit for the success we have had should be given to the Committee for the splendid help they gave me, and to the registrar and to Miss Kirwan (the registrar's assistant), who did a great deal of work for me.

The REGISTRAR said Miss Kirwan had been presented with a very handsome fountain pen.

The PRESIDENT: She worked very hard.

Pharmacopœia Revision

Comments on the Report of the Pharmacy Subcommittee

By E. Quant, F.C.S., M.P.S.

THE following notes are written from the view-point of the practising chemist. Whether he carries it out or not, it is obviously the function of a pharmacist to practise pharmacy, and the formulas of the Pharmacopœia should be devised with the object of making this possible. For example, the pharmacist who makes his own senna preparations in quantities required in his own business will have no need to evaporate under reduced pressure; but naturally the manufacture on a large scale may require in many operations extensive and expensive plant which only become necessary when dealing with huge quantities. These requirements can very well be left to the chemical engineer of the large works. It should be present in the minds of the Pharmacopœia revisers that they are compiling the pharmacist's "cookery book."

ALCOHOL.—Ethyl alcohol 95 per cent. has advantages, especially as it is to be v/v strength.

EXTRACTS.—General processes of extraction. These appear to be as practical as can be devised.

EXTRACTUM CINCHONÆ.—For the pharmacist this preparation is to be welcomed.

EXTRACTUM SENNÆ LIQUIDUM.—This is decidedly the manufacturer's process for handling large volumes; prepared on the scale required by individual pharmacies, a very reliable preparation is obtained by two macerations of the pods in double-strength chloroform water for twenty-four hours each, evaporating each portion down as it is drawn off; finally mixing the two infusions to reduce to the required volume. Such a concentrated infusion can be converted into a liquid extract by the addition of alcohol, or into a syrup by the addition of sugar.

INFUSIONS, CONCENTRATED.—I suppose every doctor who has a dispensary uses nothing but concentrated infusions, and it has long since become the custom among pharmacists to dispense the concentrated infusions with the exception of digitalis and buchu. The Pharmacopœia should be quite definite in its statement, and direct that concentrated infusions should be used unless the fresh infusion is prescribed: the object of the Pharmacopœia is to ensure uniformity, and it should not leave this matter to the discretion of the dispenser, who expects a clear direction.

LINIMENTUM CAMPHORÆ.—The amount of camphor liniment prescribed as such is negligible, and the high-

grade olive oil might well be used; but I suggest the synonym "camphorated oil" should be deleted to make it permissible to retail the present B.P. quality.

OINTMENT BASES.—I think all will approve of a substitute for lard; a base possessing better keeping properties is certainly desirable.

PULVIS RHEI COMPOSITUS.—Presumably Gregory's powder attained its reputation and popularity when carbonate of magnesia was used; evidently the alteration was a supposed theoretical rather than a real advantage.

SPIRITUS MENTHÆ PIPERITÆ.—It is to be regretted that "essences" should reappear in the Pharmacopœia. Essences more properly belong to the perfumery and culinary arts and domestic drinks.

SYRUPUS LIMONIS.—This formula is an improvement, but to the practising pharmacist the preparation of a strong tincture as directed is not welcome: as an alteration I suggest that after the period of maceration the necessary amount of water be added, that it be allowed a further maceration for twenty-four hours, then filtered and citric acid and sugar dissolved in the filtrate: this method avoids the trouble and loss incidental on pressing and filtering the strong tincture and adding more alcohol.

SYRUPUS PRUNI VIRGINIANÆ.—The addition of the glycerin to the first portion of the water suggests an improvement, but I think it more practical to collect the necessary volume and then add the sugar to the percolate.

TINCTURA CARDAMOMI COMPOSITA.—In my experience this tincture has produced more "little troubles" than any, for which the colour has been responsible. We are well aware of the delicate nature of cochineal as an indicator, but I fancy the fact has been overlooked that tinct. cardam. co. has an acid reaction (to litmus). As already recommended by J. H. Franklin and others, cudbear would be a decided improvement.

CATAPLASMA KAOLINI.—Kaolin poultice appears to be worthy of a place in the new B.P., but I think the following *modus operandi* is somewhat easier. Heat the kaolin to 120° for one hour. Separately heat the glycerin, in it dissolve the boric acid, add to the kaolin and mix. When cool add the other ingredients, etc. Made in this way a "putty" of the right consistence is obtained. I think it better to have the boric acid in solution, and incorporating hot glycerin makes manipulation easier.

Soap-root for Liquorice

By Dr. David Hooper

AMONG a recent shipment of decorticated liquorice root from Russia sent to the London market there appeared a root which was noticed to have characters differing from those of the liquorice root of commerce. The root was cylindrical and about an inch and a-quarter in diameter. The exterior was light brown, with patches of the epidermis removed showing the white bark; there were also transverse annular markings, where attrition exposed irregular transverse lines. The fracture was tough and granular, showing a light, whitish section with indistinct medullary rays running through the wood; the bark adhered to the wood. The root was tasteless and odourless, and light enough to float on water. It thus differs from liquorice, which has a brownish exterior with longitudinal furrows; a fibrous fracture; a yellowish wood; a distinctly sweet taste and a peculiar aroma; and sinks in water.

Another feature of this adulterant is that when examined under the microscope it exhibits near the cambium and along the medullary rays numerous conglomerate crystals of calcium oxalate. These are

peculiar to species of *Gypsophila* belonging to the order *Caryophyllaceæ*, the roots of which are used in the East as a soap substitute. Dr. C. R. Metcalfe, of the Jodrell Laboratory, Kew, examined a sample of "washing root from Tabriz, Persia," and found it to have the same crystals and other characters as those in the root from Russia. These are figured in Wiesner's "Die Rohstoffe" (iii, 452). Upon examining samples of *Gypsophila* root in the Kew Museums it was observed that some samples were denser and darker than others, and these had an acid taste of saponin compared with the lighter roots, where the taste was very slight. This supports the results of Kobert and others, who found the amount of saponin in soap-roots to vary to a considerable extent.

The *Gypsophilas* are plants of North and Western Asia and Eastern and Southern Europe. *G. Arrostii*, Guss., and *G. Struthium*, Linn., supply the soap root of Southern Europe and Asia Minor. They were described in the Commercial Compendium, June 7, 1930 (p. 717).

Festivities

West Ham Function

THE annual dinner and dance of the West Ham and District Association of Pharmacists was held at the Holborn Restaurant, London, W.C.1, on January 12. The guests were received by the President (Mr. H. S. Aplin) and Mrs. Aplin, and included Mr. A. R. Melhuish (president of the Pharmaceutical Society) and Mrs. Melhuish, Mr. H. N. Linstead (secretary of the Pharmaceutical Society), Mr. T. Groves, M.P., Mr. E. J. Johnson, O.B.E. (Borough Treasurer of West Ham), Mr. E. W. White, J.P. (chairman, West Ham Insurance Committee), Dr. G. Dean (West Ham Municipal College), Mr. and Mrs. W. J. Beardsley, Mr. and Mrs. Irvine, Mr. and Mrs. Marns, Miss A. T. Borrowman, Messrs. V. Hewlett, J. E. Lockyer, P. Maw, J. Milner, H. Skinner, J. Thomson and B. Wathen. After the loyal toast had been honoured, Mr. W. J. Beardsley appealed on behalf of the Society's Benevolent Fund. "The Pharmaceutical Society of Great Britain" was proposed by Mr. J. H. Franklin (chairman of the British Pharmaceutical Conference), who said there were certain things about the Society that must appeal to the far-seeing man. He was proud that the Society had founded the first laboratory for teaching practical chemistry, and another fine achievement was the establishment of the Pharmacological Laboratories. These laboratories, he said, were not so well known and understood by the members as they might be. Another important aspect of the Society's work was the British Pharmaceutical Codex; the Committee were working hard on a new edition, and they must make the Codex the finest work of its kind. With regard to the Council of the Society, he had some knowledge of the amount of anxiety and work of recent months. Mr. Melhuish, in reply, said the Council had placed everything before them; that was the policy of the Society, and he thought it was the right one. They did not wish to hide anything from them. He suggested they should always keep the fundamentals before them, and not be led away by details. He thanked them one and all for their hospitality. Mr. H. Skinner, who was called upon to announce the presentation of trophies, said in the annual bowls tournament between England and Scotland at Cardiff during the recent Conference, two members of the West Ham Association had helped to beat Scotland. He asked Mr. Desmond to receive a replica of the London Challenge Cup from the hands

of Mrs. Aplin. The second replica was presented to Mr. J. Reed, and the "Victor Ludorum" cup, presented annually by the Vinolia Co., Ltd., for the highest performance in more than two sports, was presented to Mr. Gray (Walthamstow). "The West Ham and District Association of Pharmacists" was proposed by Mr. E. J. Johnson, O.B.E., who stated that the West Ham Council had decided that no appointments would be made as dispensers in the County Borough of West Ham except to those holding the Society's diploma. He coupled with the toast the name of Mr. H. S. Aplin. Mr. Aplin, responding, said he was the twenty-first president of the Association. Mr. Reed had been secretary for seven years. "The Ladies" was proposed in characteristic manner by Mr. Arthur Mortimer (secretary of the Wholesale Drug Trade Association). Twenty-three years ago, he said, he was a member of the West Ham Association. He had much pleasure in coupling with the toast the name of Mrs. Jean K. Irvine, M.B.E. Mrs. Irvine, in reply, announced that the collection on behalf of the Benevolent Fund amounted to £16 16s. Dancing occupied the remainder of the evening.

Welsh Dinner and Dance

THE annual dinner and dance of the Newport and Monmouthshire Chemists' Association and Branch of the Pharmaceutical Society was held at the Westgate Hotel, Newport, on February 12. The guests of the evening were Councillor W. Deacon (Bridgwater), Councillor T. Hardy (Maryport) and Mr. John Rowland, C.B.E. Proposing the toast of "The Pharmaceutical Society," Mr. W. Ben Evans (president) discussed pharmaceutical administration, and expressed the belief that there was no similar body in existence subject to so much criticism. In regard to the Pharmacy and Poisons Bill, they looked to the Society to rise to the occasion and to do what was right in the interests of pharmacy. Mr. Deacon, in reply, said there were only three courses open to the Society, to reject, oppose or bring about satisfactory amendments. They chose the latter, because it was felt that either of the first two courses would create an impossible situation. They would fight to the last ditch in the effort to get facilities in the new Bill which would mean that all dispensing in chemists' shops would be done by qualified people. Mrs. E. Nyblad (assistant secretary), on behalf of the Association, presented Mr. Deacon with a cheque for the Society's Benevolent Fund. Mr. Deacon thanked Mrs. Nyblad and the Association. Mr. T. J. Badgett (past-president) proposed the toast of "The Visitors," to which Mr. John Rowland (chairman Welsh Board of Health) responded. "The Newport Chemists' Association" was proposed by Alderman J. Lloyd Davies; Mr. Jared Edwards (vice-president) replied. Mr. F. E. S. Clarke, in proposing the toast of "The Kindred Associations," stressed the necessity for organisation, co-operation and co-ordination. Councillor Hardy, responding, gave a brief survey of the objects of the Retail Pharmacists' Union. The toastmaster was Mr. J. C. W. Evans, and the organiser Mr. C. A. Nyblad (secretary).



Photo

[Day

The group includes Mr. Ben Evans (president), Mrs. Evans, Mr. W. Deacon, Mr. T. Hardy, Mr. and Mrs. Badgett, Mr. and Mrs. Jared Edwards, Mr. J. C. W. Evans, Mr. C. A. Nyblad (secretary) and Mr. J. Rowland.

West Middlesex Chemists' Dinner

THE first annual dinner and dance of the newly-formed West Middlesex Chemists' Association and Branch of the Pharmaceutical Society, an expansion of the Ealing Pharmacists' Association, was held at the Restaurant Frascati, Oxford Street, W.1, on February 18, the president (Mr. Herbert Skinner) in the chair. With the president at the top table were Mrs. A. R. Keith (who acted as hostess at the reception), Mr. A. R. Melhuish (president of the Pharmaceutical Society), and Mrs. Melhuish, five other members of the Society's Council—Mrs. Freke, Mr. W. J. Beardsley, Mr. John Humphrey (with whom was Mrs. Humphrey), Mr. E. T. Neathercoat and Mr. Philip F. Rowsell, Miss Borrowman, Miss Ungless, Mr. H. S. Aplin, Mr. J. Hearle, Mr. and Mrs. Peter Irvine, Mr. J. E. Lockyer, Mr. E. L. Slade and Mr. J. E. Young. The spur tables were in charge of Messrs. C. C. Barritt, F. Browne, J. Chalmers, R. F. Edkins, S. R. Hughes, Thomas Marns (member of the Society's Council), and R. J. M. Sennitt; and among others in the large gathering (which filled the Alexandra Chamber) were Mr. W. B. Falding, Mr. and Mrs. F. Giles, Mrs. Marns, Mr. J. A. Michie, Mr. J. Milner (the P.A.T.A. president), Mr. Philip Royle, Mr. G. A. Tocher, Mr. and Mrs. J. T. Walters, Mr. and Mrs. W. P. Want, Mr. F. G. Wells (member of the Society's Council), Mr. W. J. Williams, Mr. and Mrs. Hugo Wolff. Mr. Skinner's practised skill in handling after-dinner programmes, and the spade work of his committee, made this a notable occasion, not alone in respect of the speeches, good as they were, but specially in the atmosphere of friendliness which the West Middlesex Association evidently knows how to create. There was not too much music, and there were only two toasts. The first, "The Pharmaceutical Society of Great Britain," was submitted in a neat speech by Mr. S. R. Hughes, the Association's secretary, who promised that in the Society's time of crisis the Association would not be found wanting. Mr. Hughes paid a tribute to Mr. Melhuish's long and honourable record in the interests of pharmacy. In reply, the president of the Society (who received an ovation) congratulated the Association on its expansion. He remembered going, a long time since, to Ealing with Mr. Skinner to form an association there; much of the credit of its growth was due to Mr. Skinner. Referring briefly to the Pharmacy and Poisons Bill, Mr. Melhuish remarked that this was not the time for opposition within the ranks of pharmacy; it was a time for getting together and doing the utmost. Mr. J. C. Young, president of the North London Pharmaceutical Association, paid an eloquent tribute, in giving "The West Middlesex Chemists' Association and Branch," to Mr. Skinner, who had started the North London Association twenty years ago, and was secretary of the Ealing Association for four years. As in the case of Sir Christopher Wren at St. Paul's, they might ask inquirers to look around them that evening. The toast was accorded with musical honours. Mr. Skinner, responding, pointed out that this was the first time he had been president of a local association, adding, amid incredulous laughter, that he did not think he would be able to brave the ordeal in future. After a reference to the late Mr. H. A. Irwin, a former president of the Ealing Association, Mr. Skinner went on to say that into the handling of the many things that lay before them in pharmacy personality did not enter. He specially welcomed Mr. Neathercoat, whose action in signing the Departmental Committee's report had occasioned much comment. He (Mr. Skinner) knew the difficulties Mr. Neathercoat had had to contend with, and applauded his moral courage in signing as he did. Having welcomed the members of Council and presidents of other associations who were present, the president urged that in the parliamentary situation it was a case of "all hands on deck." When the call was given, pharmacy would not fail. On this note of statesmanship the speechmaking ended, and the room was cleared for the dancing with which a evening of outstanding success concluded.

Association Meetings

Belfast.—A meeting of the General Committee of the Chemists' and Druggists' Society of Ireland was held on February 12, Mr. Fred Storey (president) in the chair. The following were also present:—Messrs. S. Gibson (treasurer), C. Abernethy, W. Martin, W. E. Wilson, S. Suftern, R. McBirney, J. A. McRoberts, and J. Macauley (secretary). A letter was read from the North Irish Pharmacists' Association asking the Society to appoint three members to meet an equal number of representatives from their Association and also from the U.R.D.T.A. to reopen the question of amalgamation. A long discussion took place, and it was agreed that the three members already appointed, Messrs. Storey, Gibson and Macauley meet the representatives of the other associations for discussion. It was agreed to send a letter of condolence to the Misses May on the loss they had sustained in the death of their father, Mr. Thomas May, and to Mr. Unsworth on the death of his daughter. It was arranged to hold the annual meeting on February 25 at 3 p.m. A discussion took place regarding the classes and facilities for members and associates. It was pointed out that there were still a few apprentices and assistants for Part I, Schedule 2. Arrangements were made to give these candidates facilities to practise in pharmacy in the rooms on application to the president or the secretary. At a previous meeting of the Finance Committee the accounts showed that the affairs of the Society were in a sound position.

British Pharmaceutical Association.—We have received the following report from Mr. J. F. McNeal:—A meeting of the British Pharmaceutical Association executive was held in London, on February 11. The minutes of the meeting held at the Imperial Hotel, on January 27, were read and confirmed. Mr. Clarke then objected to the meeting, stating that he did not agree those present could function. After it had been pointed out that the executive had been elected by the meeting at the Imperial Hotel, Mr. Clarke was ruled out of order. He then objected to the action taken by the secretary, who had already made arrangements to oppose the Bill subject to approval. Mr. Clarke then stated that he had knowledge of a letter sent to "The Pharmaceutical Journal" for publication, and also that he had knowledge of a letter the R.P.U. was that day sending out regarding new associations, and, thereupon, tendered his resignation, which was accepted. The business was then proceeded with, and the secretary submitted several titles which had been put forward by members, and of which he had been supplied with proofs in order to assist the choice. It was resolved that the name of the association be "the British Pharmaceutical Association and the Council of Qualified Chemists." Several names had been brought forward for election to the executive, and it was decided to leave the matter over until the next meeting to enable the secretary to ascertain if certain chemists were willing to serve. . . . The secretary was instructed to prepare rules for the approval of a full council meeting. Mr. J. F. McNeal, who had acted as secretary at both meetings, was confirmed in his office.

Cardiff.—The monthly meeting of the Cardiff Pharmacists' Association and Branch of the Pharmaceutical Society was held on February 10, Mr. H. A. Hobbs (president) in the chair. A discussion arose on the question of the proposed change of the weekly half-holiday from Wednesday to Saturday. The secretary reported that twenty-nine voted against any change and eighteen were favourable to the adoption of Saturday. In view of the majority of traders in the city being against any alteration, the Chamber of Trade had decided to postpone the matter. It was thought that the degree of bachelor of pharmacy should be granted from the Welsh University. A resolution was forwarded to the Technical Instruction Committee requesting them to take the necessary steps to secure this advantage for their students.

The Health of the Nation in 1930

By Thomas Maben, Ph.C.

THE only method of arriving at a more or less accurate estimate of the health of the nation is by a study of the reports of the Registrar-General. These reports are issued weekly, quarterly and annually, and while the weekly reports are published punctually, the quarterly reports are usually two or three months late and the annual report always many months late. The student who wishes to get at the facts is faced with several difficulties, the most serious of which is that for certain infectious diseases, such as scarlet fever and diphtheria, deaths and notifications of illness are published; for others, e.g., measles, whooping cough and influenza, deaths are stated, but no notifications; while in the case of pneumonia notifications are published for the whole country, but only the figures for deaths in London are to be found in the weekly returns. Making allowance for these deficiencies, it is possible to procure useful information regarding 24,000,000 of the population of England and Wales.

While London figures are being taken as the standard, it must be understood that death rates vary considerably in different areas; for example, during the last two full weeks of 1930 the following were the death rates per 1,000 persons living, in the cities stated:—Sheffield, 11.4; West Ham, 11.7; Birmingham, 12.0; Bristol, 12.7; London, 13.9; Leeds, 14.8; Manchester, 15.1; Edinburgh, 15.5; Belfast, 15.7; Glasgow, 16.3; Liverpool, 16.3. These cities contain about 11,000,000 people, and the mean rate, corrected for population, is 14.2. According to the returns, other 9,500,000 have a mean rate of 13.2, so that the London figure of 13.9 is a fair average. I propose therefore to summarise the London figures.

Causes of death	1929	1930
Infectious diseases	5,175	2,429
Tuberculosis (all forms) .. .	4,612	4,517
Cancer	6,690	6,715
Venereal, rheumatic, diabetic, alcoholic	904	907
Diseases of nervous system and apoplexy	3,941	3,621
Diseases of the heart and circulatory system	15,415	12,977
Diseases of the respiratory system ..	10,973	5,817
Digestive and intestinal diseases ..	3,225	3,108
Kidney and genito-urinary diseases ..	2,653	2,691
Puerperal sepsis and causes incident to childbirth	1,816	1,664
Old age	1,583	1,190
Suicide	623	583
Accidents, violence, etc.	4,100	3,967
All causes	61,710	49,826

The estimated population of London in 1929 was 4,458,200, and for 1930, 4,417,900, in both cases including civilians only, so that the death rates per 1,000 were 13.9 and 11.3 respectively, the decrease thus being almost exactly 20 per cent. The explanation of this big decrease will presently appear, but here it may be convenient to point out that 1930 was throughout a much milder year than 1929, and this without doubt has been a contributory factor in the production of the marked fall in the death rate last year, which was, I believe, a record so far as London is concerned. It is usually understood that persistent mild and wet conditions are much less favourable to health than dry, cold weather; indeed, many authorities have stated that this is definitely the case with reference to phthisis, but the figures in the next table do not bear this out. From the beginning of the year to its close, temperature ruled higher than the normal, and so did the rainfall, with short breaks in July and August, over most parts of the country. Notwithstanding this, the figures, even for tuberculosis of the lungs, show a 10-per-cent. reduction compared with those of 1929.

In tabulating the diseases which have been most fatal in London in the two years under review, I propose to

neglect those which showed fewer than 1,000 in both years.

	1929	1930	Increase	Decrease
Measles	194	1,036	842	—
Whooping cough	1,138	128	—	1,010
Influenza	3,088	359	—	2,729
Tuberculosis (of lungs) ..	4,052	3,652	—	400
Cancer	6,690	6,715	25	—
Apoplexy, etc.	2,166	2,055	—	111
Other disease of nervous system	1,379	1,240	—	139
Diseases of heart	12,488	10,596	—	1,892
Disease of circulatory system	2,676	2,123	—	553
Bronchitis	4,247	1,896	—	2,351
Lobar and broncho-pneumonia	6,726	3,408	—	3,318
Bright's disease	1,722	1,772	50	—
Old age	1,583	1,190	—	393
	48,149	36,170	917	12,896

From these figures it is clear that the remarkable improvement in the health of London during 1930 is due to the fall in the influenza figures from the high points reached during the epidemic in the spring of 1929. Influenza leaves behind it weakness in heart, chest and lungs, and the diseases in these organs were responsible for no fewer than 7,500 deaths in 1929 in excess of those of 1930.

We come now to the consideration of the seasonal variation in mortality which naturally follows the temperature:—

QUARTERLY DEATH RATES IN LONDON PER 1,000 LIVING

	1929	1930
First quarter	24.1	13.7
Second quarter	11.4	10.8
Third quarter	8.9	9.3
Fourth quarter	11.1	11.4

Mean for the year 13.9 11.3

The figure for the fourth quarter of 1930 may be further analysed. The rate in October was 10.3, in November 11.2, in the first two weeks of December 12.1, and for the last two complete weeks 13.9, while for the complete week ended January 3, 1931, the figure has gone up to 16.0.

Influenza

The most important feature of these tables is the 1929 death rate from influenza and those sequelæ that follow in its train. The deaths from influenza in a population of 19,500,000 in 1930 numbered 2,234, and we may assume that the figures for England and Wales may approximate to 4,500. In 1929 28,084 died from this disease, but even this figure was far eclipsed in the pandemic of 1918, when 112,329 died, and in 1919, when the fatalities numbered 43,801.

Measles

The unusually large mortality from measles during the first six months of 1930 was another outstanding feature. It used to be thought that measles was a harmless kind of trouble which every child ought to get over and be done with. But it is not now so regarded by medical men, who know too well the possible illnesses that are apt to follow. As already stated, measles does not yet require to be notified, and therefore it is impossible to say how many children have had the disease and have recovered. We know, however, that 2,877 deaths occurred in a population of 19,500,000, which will probably approximate to 6,000 for the whole of England and Wales. In 1929 the disease was comparatively mild,

the total mortality being 3,388. Going back thirty years, we find that in 1900 the figures were 12,710; in 1910, 8,302; and in 1920, 7,190. The question will probably arise whether measles ought not to be notified.

Scarlet Fever and Diphtheria

Cases of both of these diseases are notified, and it is of interest to note that the total deaths from both will probably not exceed the deaths from measles alone in 1930. The figures for 19,500,000 were 409 deaths from scarlet fever and 1,965 from diphtheria. Since 1900, when scarlet fever claimed 3,844 deaths and diphtheria 10,000, both diseases have gradually been brought into subjection. Scarlet fever deaths may be under 1,000 in 1930, and diphtheria probably 4,000. Whooping cough caused some 12,000 deaths at the beginning of the century, and is also being mastered, but cancer is still one of the blackest spots. The mortality in 1900 was 26,721; in 1929 it had risen to 56,896, and apparently the figures are still rising. Mortality from phthisis, fortunately, has been gradually decreasing. Twenty years ago the deaths amounted to 51,317, ten years ago to 42,545, and in 1929 to 37,990. The probability is that 1930 will show not more than 35,000, which is, to a limited extent, satisfactory.

Pneumonia

The deaths registered from pneumonia (broncho- and lobar) in London in 1929 were 5,880, and the total mortality for England and Wales was 43,847, a ratio of 1 to 7.46. The deaths registered in 1930 in London were 3,408, and if the same proportion for the country is maintained the total deaths will exceed 25,000. Pneumonia is now a notifiable disease; the notifications during 1930 in London were 5,236, and for the country as a whole exceeded 50,000. Assuming these figures to be correct (which we are entitled to do), it follows that in London, out of every twenty individuals attacked by pneumonia, no fewer than thirteen die. If the total deaths registered in 1930 are 25,000, as is probable, the case death rate will be over 50 per cent. But no one ever meets a doctor who will admit any such mortality; in fact, many doctors will say they never lose a case of pneumonia. What is the explanation? I suggest that if proper inquiry is made, it will be found that more than half of the cases that are registered as having died of pneumonia have never been notified. Great attention has recently been paid to rheumatism and to puerperal sepsis, the deaths from which are quite insignificant by comparison, but hardly a word is ever heard about pneumonia, which for the past half-century has claimed considerably over a million victims. Pneumonia is a disease which deserves much more attention from the Ministry of Health than it has received in the past.

Insurance Act Dispensing

Record of Matters concerning Chemists' Interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Burnley.—At the annual meeting of the Burnley Insurance Committee it was reported that the amount expended on drugs and appliances during 1929 was £8,820, against £8,281 for 1928. Pharmaceutical service was stated to have been highly satisfactory; of seventy-three tests taken in five years it was found necessary to impose small fines in only five cases.

Huddersfield.—At the annual meeting of the Huddersfield Borough Insurance Committee, held recently, it was reported that twelve tests of medicines and three of appliances had been taken, and, of these, ten of the former and two of the latter were sufficiently accurate as to render further action unnecessary. It was also reported that the cost of insulin for the quarter ended September 1930 was £33 16s. 10d., against £20 19s. for the same period of the previous year.

Kent.—At a meeting of the Kent Insurance Committee, held recently, the Medical Service Subcommittee reported that a prescription had been dispensed by a dispenser employed by a panel doctor contrary to the doctor's instructions and without his knowledge. The Committee decided to take no action in the matter.

Middlesex.—The bi-monthly meeting of the Middlesex Insurance Committee was held recently. The Finance and General Purposes Subcommittee reported payment of accounts amounting to £5,760 6s. 9d., including the following:—To chemists for August accounts (in full), £4,438 4s. 10d.; to Middlesex Pharmaceutical Committee on account of expenses, £250; to chemists for September accounts (less deductions for expenses of Middlesex Pharmaceutical Committee), £4,963 19s. 7d. The action of the Subcommittee was approved.

North-East Midland.—The annual meeting of the Joint Committee of the North-East Midland Prescription Bureau was held recently. The administrative areas served by the Bureau comprise Barnsley, Derby, Derbyshire, Grimsby, Halifax, Huddersfield, Lincoln, Lincolnshire (Lindsey), Nottingham, Nottinghamshire,

Rotherham and Sheffield. The number of prescriptions priced during 1930 was 3,662,831, submitted in 9,858 accounts of chemists, etc. Compared with the corresponding figure of the previous year the prescription total showed a decrease of 258,521. Particulars were given of a case noted in the course of pricing in which over a period of twenty-eight days a patient received twenty-two prescriptions covering a total quantity of 1,940 cubic feet of oxygen at an aggregate cost of £32 5s. 4d. Reports received from the Retail Pharmacists' Union and from the Government Audit Department showed that a high standard of accuracy was maintained by the staff.

Nottinghamshire.—At the annual meeting of the Nottinghamshire Insurance Committee, held on January 12, it was reported that the number of insured persons in the area on October 1, 1930, was 168,947, compared with 105,000 in 1913. There were 127 chemists on the list, with 174 shops, and during the year ending September 30 1930, 500,737 prescriptions were dispensed, compared with 467,117 during the previous year. Drugs and appliances cost £16,424 12s., vaccines and serums £71 16s. 6d., and insulin £664 8s. 11d., while oxygen was supplied at a cost of £32 5s. 4d.

Oldham.—At a meeting of the Oldham Borough Insurance Committee on January 19 it was reported that during the past year twenty-four tests of drugs and appliances were taken, and four cases were referred to the Pharmaceutical Service Subcommittee. In one case a penalty of £1 was imposed, and in the three remaining cases the chemists concerned were cautioned.

Radnorshire.—It was reported to the Radnorshire Insurance Committee, recently, that the Pharmaceutical Service Subcommittee had investigated a complaint respecting the quality of a drug supplied. It was agreed that the deficiency was due to deterioration, and the chemist was requested to spare no effort to keep his drugs in the best possible condition.

Rutland.—At the annual meeting of the Rutland Insurance Committee, on January 15, it was reported that seven samples of medicine and three of appliances had been obtained from chemists for analysis. The dispensing, with one exception, was reasonably accurate.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2, February 19

THE general industrial outlook is still obscure, but, if anything, there are slight indications of a betterment, while the reports about the trans-Atlantic situation are certainly more promising than for some time past. This has helped to infuse a little more confidence in the commodity markets with a somewhat more active demand, although requirements are much under normal. In the pharmaceutical group of chemicals, the benzoates (acid and sodium) are a trifle weaker. Phenolphthalein is steadier after last week's reduction. Citric and tartaric acids are dull of sale and easier inclined; the barbiturates are very steady, with sodium tending firmer. Business in crude drugs is quiet; the chief alteration is a decline in Matto Grosso ipecacuanha owing to Continental competition. Gum acacia is cheaper for forward shipment, but spot prices are steady. New Norwegian cod-liver oil is in upward tendency on poor fishing results. Agar-agar is very firm on the spot owing to scarcity. Chamomiles and squill met with a steady sale. Pimento is easier and pepper rather dearer. In essential oils, a better demand is reported for star anise on the spot, and to arrive; cassia is lower on the spot and Sicilian lemon is the turn easier. Japanese dementholised peppermint is firm at the source, with second-hands cheaper sellers. Among the industrial chemicals and coal-tar products business continues limited in volume. Keen competition has led to a fall in formaldehyde; acetone has been in better demand at steady rates. Naphthalene and methyl alcohol are cheaper. In the group of fixed oils the tone has been rather better, although the demand has been quiet. Linseed is slightly higher, in sympathy with seed; castor, coconut and palm kernel are steadier; cotton, soya and wood oils are easier, while turpentine on balance is 6d. cheaper.

Higher	Firmer	Easier	Lower
Citronella oil (Java)	Barbitone	Antimony	Benzonaphthol
Linseed oil	Cod-liver oil	Benzoic acid	Cassia oil
Pepper		Coriander seed	Formaldehyde
		(Mor., spot)	Gum acacia
	Steadier	Cotton oil	(c.i.f.)
		Lemon oil	Ipecacuanha
		Naphthalene	(M. G.)
		Sodium	Methyl alcohol
	Betanaphthol	benzoate	Pimento
	Castor oil	Soya oil	Potash caustic
	Coconut oil	Wood oil	Terpineol
	Palm kernel oil		Turpentine
	Phenolphthalein		Wormseed oil

Cablegram

BERGEN, February 18.—The catch of cod since the opening of the season now amounts to 3,595,000, against 6,094,000 for the corresponding week of last year, and the yield of steam-refined non-freezing oil is 4,568 hectolitres, against 8,307 hectolitres at the same date last year. These results are considered poor, and the market is firmer at about 97s. per barrel, c.i.f. for finest medicinal 1931 oil.

Crude Drugs, etc.

AGAR-AGAR has a very firm undertone, the spot value of Kobe No. 1 being 4s. 6d. per lb. January shipment is quoted at 3s. 3d. c.i.f., February at 3s. 3d., and March at 3s. 2d. c.i.f.

ANTIMONY has been quieter and rather easier on the spot for Chinese metal at about £24 15s. up to £25 10s.; the top figure is apparently for small lots. C.i.f. terms for shipment from China are about £22 15s., while parcels afloat

are offering at £23 15s. English high-grade regulus is called £42 to £42 10s., and ordinary brands vary down to £36 10s. Chinese crude on the spot (70 per cent.) is nominally about £21 10s., and Chinese white oxide is £31.

BALSAMS.—Canada is without interest at 4s. 9d. to 5s. spot. Tolu is easier at 3s. spot.

BELLADONNA.—Leaves of good U.S.P. quality are offered at 57s. 6d. per cwt. on the spot, and for high-testing root 60s. is wanted.

CAMPHOR (REFINED).—Japanese slabs are in fair demand, offering at 2s. 2d. per lb. on the spot; flowers are 2s. 3d. and 4-oz. tablets 2s. 7½d. per lb.

CARDAMOMS are unchanged. Ceylon-Mysore, bold bleached, is 6s. to 6s. 3d.; mediums, 4s. to 4s. 3d.; small mediums, 2s. 9d. to 3s.; small, 2s. 3d. to 2s. 6d.; green Alleppy, 2s., and for shipment 1s. 9d. c.i.f. Bombay seed is 3s. to 3s. 1d., and for shipment 2s. 7d. per lb. c.i.f. At auction on February 12, 94 cases and seven bags Mangalore and Ceylon were offered and bought in, but 18 cases of bold were sold subsequent to the sale.

CASOARA SAGRADA.—During January the landings were 17 tons and the deliveries 13 tons, leaving a disclosed stock of 50 tons against 109 tons in 1930 and 231 tons in 1929.

CHAMOMILES.—Belgian meet with a steady sale at from 120s. to 145s. per cwt., according to colour.

CINCHONA.—At the auction of Java pharmaceutical (Succirubra) bark held at Amsterdam on February 11, 1,339 packages (878 bales and 961 cases) weighing 71,631 kilos were offered, containing the equivalent of 1,782 kilos quinine sulphate. Of this quantity 251 cases weighing 8,702 kilos and containing the equivalent of 232 kilos, quinine sold at from 33½ c. to 65½ c. per half kilo ret. Next auction March 18.

CLOVES.—Zanzibar are quiet but firmer at 1s. per lb. spot and 11½d. c.i.f. for January-March shipment. Madagascar are 11½d. per lb. spot, and for January-March shipment 9½d. c.i.f.

The exports of cloves from Zanzibar during the first eleven months of 1930 amounted to 143,490 cwt., against 155,139 cwt. for the corresponding period of 1929.

The landings of Zanzibar in London during the week ended February 14 have been nil and the deliveries 24, leaving a stock of 713, against 1,618 in 1930 and 2,208 bales in 1929. From January 1 to date landings of Zanzibar have been 213, against 1,814 in 1930, and the deliveries 403, against 994 in 1930. Landings of Madagascar for the week ended February 14 were 270 and the deliveries 122, leaving a stock of 1,144, against 646 in 1930 and 2,387 bales in 1929. Landings of Madagascar this year to date have been 770, against 694 in 1930, and the deliveries 467, against 62 in 1930.

COCONUT (DESICCATED) is quiet and unchanged. Fine is 23s. 9d. and medium 23s. 3d. on the spot; 21s. 6d. c.i.f. is the price for February shipment and 21s. 4½d. c.i.f. for March shipment.

COD-LIVER OIL.—The tendency is firmer in view of the poor fishing results, and already business has been done in 1931 oil for March-April shipment, values of which are from about 94s. to 97s. 6d. per barrel c.i.f. for finest steam-refined non-freezing oil.

COLCHICUM.—Seed is offered at 2s. 8d. per lb., and root at 40s. per cwt. on the spot.

CORN PRODUCTS, ETC.—Guaranteed water-white English glucose (corn syrup) is offered at 18s. 6d. per cwt. for delivery up to the end of March, ex store, London; American guaranteed water-white is also 18s. 6d. net for delivery up to the end of June, ex store, London. Dutch maize starch powder (cornflour) is 11s. per cwt. on the spot and 10s. f.o.b. for shipment. American for delivery up to the end of June is 11s. 9d., ex store, London. Pearl starch for delivery up to the end of June is 11s. 3d. per cwt. ex store, London. Dutch maize starch crystals is 18s. on the spot, and American for delivery up to the end of June is 16s. net per cwt. ex store, London. Dutch dextrin is quoted at 18s. to 22s. per cwt. on the spot, as to quality. American canary for February delivery is 18s. 4½d., and March-June delivery is 17s. 10½d., white is 18s. 1½d. per cwt. net ex store, London, for February delivery, and March-June is 17s. 7½d. per cwt. net ex store, London. Dutch farina is 9s. 6d. per cwt. on the spot, and to arrive 8s. is quoted f.o.b. Polish is 9s. on the spot and 8s. 3d. per cwt. c.i.f.

DAMIANA LEAVES are quoted at 8½d. per lb. on the spot.

DIGITALIS LEAVES are offered at 40s. per cwt. on the spot, and to arrive at 38s. c.i.f.

ERGOT.—Russian is steady and unchanged, with stocks diminished, at 10d. per lb. for usual good quality Russian and/or Polish on the spot. C.i.f. Hamburg sellers predict higher prices.

GUM ACACIA is again easier for shipment, and shippers have reduced prices by about 1s. 6d. per cwt. all round. New crop Kordofan cleaned sorts for February-March shipment is now offered at 39s. per cwt. c.i.f., and natural at 37s. c.i.f. The spot market still remains steady, and Kordofan cleaned is unchanged at 47s. 6d. to 50s., and natural at from 45s. to 46s. Bleached is in short supply and quite steady at 130s. to 137s. 6d., according to quality. Talha is unchanged at 32s. 6d. spot, but is easier forward at 21s. 6d. c.i.f. According to the latest advices from the Kordofan stations, the arrivals during January were 2,950 tons, against 1,884 tons for December and 1,541 tons for January 1930. These arrivals at the Kordofan stations are the largest seen for many years.

HONEY.—Better inquiry for manufacturing, which still rules low in price at around 25s. to 27s. 6d. for set amber Jamaica. Other grades, according to colour, range from 32s. 6d. to 37s. 6d., both for Jamaican and Cuban.

IPECACUANHA.—The spot market is again on the easy side, as lower quotations have been received both from Hamburg and origin. Matto Grosso on the spot is offering at 9s. 3d. per lb., with Hamburg shippers quoting 8s. 3d. to 8s. 6d. Some ninety bales of Minas have just arrived, but part of this may be going into direct consumption. Cartagena is lower, offering from the Continent at around 7s. 9d. to 8s. c.i.f. During January the landings of all descriptions in London amounted to 49 cwt., and the deliveries to 32 cwt., leaving a stock of 210 cwt., against 258 cwt. in 1930.

LIQUORICE ROOT.—Single-peeled is selling at 27s. 6d. and double-peeled at 32s. 6d. per cwt. on the spot.

LOBELIA HERB is offered at about 7d. per lb. on the spot.

MALE FERN EXT. is rather cheaper, 26 to 28 per cent. offering at 3s. 6d. per lb., in one-cwt. lots.

MENTHOL.—Very firm quotations have been received from Japan, but not much interest is shown here. The spot values of K/S are from 12s. 9d. to 13s. per lb., and to arrive, first hands quote 12s. 10½d. c.i.f. and second-hands from 12s. 3d. to 12s. 4½d. per lb. c.i.f.

MERCURY.—The trade demand has again been largely confined to limited quantities, but there does not appear to be any large stock available of controlled metal. U.K. imports for last month were only 246 bottles, compared with 1,235 bottles for the same month last year. The agents of the Combine ask about £21 17s. 6d. per bottle net terms on the spot, although this figure is probably shaded for good-sized lots. According to a Berlin report, the German agents of the Italo-Spanish Combine have come to some arrangement for the continuation of their representation in Germany and certain other Central European countries.

OLIVE OIL.—The exports from Spain during 1930 amounted to 98,187 tons against 45,874 tons in 1929. Argentina was the principal importing country, taking more than 20 per cent. of the total shipments. Italy was a close second, and the United States third. Great Britain was seventh on the list of importers.

PEPPER.—Lampong is higher at 6½d. per lb. on the spot. To arrive, sales include January-March at 5½d. to 6½d. to 6d., and March-May at 6d. to 5½d. to 6½d. to 6d. per lb. c.i.f. Tellicherry is dearer at 57s. c.i.f. for March-May shipment. Alleppy is 57s. c.i.f. for March-May shipment. White Muntok is firm at 9½d. per lb. spot. To arrive, sales include January-March at 9½d. to 9½d. to 9½d., and March-May at 9½d. to 9½d. to 9½d. per lb. c.i.f.

PIMENTO is quiet and lower at 4½d. per lb. spot and 38s. per cwt. c.i.f. for March-April shipment.

PLATINUM.—Refined is in moderate demand on the basis of £6 5s. to £6 7s. 6d. per oz. Iridium, raw or powder, is again weaker at around £31 per oz. According to a report received here, the Russian trade agency has arranged a contract for the sale of a considerable quantity of platinum in this country, which is to be diverted *via* Leningrad to this side.

PSYLLIUM SEED.—It is believed that considerable foreign acreage will be devoted to psyllium production during the next season despite a reported over-production in 1929 and 1930, and marked fluctuations in price during those years. Demand in the United States was hardly recognisable until 1923. The fact that in the first ten months of 1930 imports of psyllium amounted to about 1,655,000 lb. valued at approximately \$378,000 may be indicative of its present importance.

RUBBER.—The improvement reported last week has not continued, and prices generally have eased ¼d. per lb. This further decline is mainly due to depression caused by the arrival of the result of the American questionnaire. Accord-

ing to this, the present American stock amounts to 209,480 tons, whilst in addition there is afloat to New York a further 56,190 tons. In short, the visible American supplies have now assumed the enormous total of 265,670 tons. Arrivals here last week totalled 2,008 tons, whilst deliveries were 1,739 tons, showing a further increase of 269 tons in the stocks. The London stock now stands at 81,432 tons, against 62,659 tons at the corresponding period last year. The Liverpool stock now stands at 43,679 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot, February and March, 3½d.; April-June, 3½d.; July-September, 4½d.; October-December, 4½d. per lb.

SARSAPARILLA.—The landings in London during January were nil, and the deliveries seven cwt., leaving a stock of 433 cwt., against 102 cwt. in 1930.

SEEDS.—**ANISE.**—Spanish is 47s. 6d.; Bulgarian 32s. 6d., and Russian 31s. per cwt. on the spot. **CANARY.**—Mazagan remains unchanged on the spot at 23s. Tangier is offering at 20s. Morocco is a little cheaper, sellers now asking 18s. 6d. **CUMIN.**—Malta is offered at 55s., with no demand. Morocco remains quiet and unchanged at 52s. 6d. on the spot. **FENUGREEK.**—Old crop on the spot is worth 16s. 6d., and new crop is offered at 15s. 6d. on the spot. For shipment, there are offers at 13s. 6d. c.i.f. **CORIANDER** on the spot is quoted at from 9s. to 9s. 6d. for sound condition parcels. **CARAWAY.**—Dutch on the spot is unchanged at 2s. 6d. per cwt. **MUSTARD.**—English is 24s. 6d. to 34s. per cwt. according to quality.

SENEGA is quoted at 2s. 8d. per lb. spot, first hands, with some second-hand sellers willing to accept 2s. 6½d. to 2s. 7d. per lb. U.S.A. shippers are not weakening at present and shipment prices keep fairly firm at around 2s. 8d. c.i.f.

SENNA.—The landings of all descriptions during January amounted to 142 bales, and the deliveries to 318 bales, leaving the stock of 2,989 bales, against 2,294 in 1930.

SHELLAC is steady at 72s. 6d. per cwt. spot for usual standard TN; fine orange is 90s. to 180s., pure button is 102s. 6d., and AC cakey 87s. 6d. To arrive, sales of March-April shipment have been made at 65s. to 63s. c.i.f. Sales for delivery comprise March at 67s. to 69s., May at 68s. 6d. to 70s. 6d. to 67s., and August at 70s. 6d. to 72s. 6d. to 69s.

SQUILL is selling quite freely, good white being worth 18s. per cwt. on the spot.

TONKA BEANS are in little better supply, and frosted Surinams are quoted lower at 1s. 1d. to 1s. 2d. Angostura are firmly held on short supplies here at about 5s. 6d. per lb.

TUBA ROOT.—Tuba (derris) root is being more widely cultivated than heretofore in Sarawak, Borneo. The present area under cultivation is estimated at 2,000 acres, or almost double that of 1923. The next crop should approximate 3,125 tons of root, of which, after deducting about one-third consumed domestically by gardeners for spraying, 2,300 tons may be available for export. Tuba root exports in 1923 amounted to 469 tons, while 704 tons were exported in 1929, the latter being the largest amount ever shipped. A British company formerly produced most of the tuba root in Sarawak for export to England. However, it is reliably reported that this company ceased its operations in Sarawak at the end of 1930 to concentrate upon its extensive holdings in Johore. This company is said to have heretofore financed the Chinese growers of tuba and to have taken over their crops when ready for export. In London, powdered tuba root (17 per cent. toxicity) is selling at 1s. 5d. per lb.

WAX (VEGETABLE).—Carnauba is quoted as follows: fatty grey on the spot at 74s., chalky grey 72s. 6d., and prime yellow 117s. 6d. For March shipment, fatty grey is 64s. c.i.f., chalky grey 61s., and prime yellow 95s. c.i.f.

Essential Oils

MORE business has been passing in star anise and cassia. Gingergrass and palmarosa are lower for shipment. Java citronella is firmer to arrive. Italian citrus oils are easier. Japanese dementholised peppermint is firm first hands. Wormseed is quoted lower on the spot.

The imports and re-exports of natural essential oils (other than turpentine) during January were as follows:—

		1929	1930	1931
Imports	.. lb.	411,511	292,713	346,966
	£	117,254	97,458	61,420
Re-exports	.. lb.	68,510	73,062	55,293
	£	33,167	31,752	22,207

ANISE (STAR).—Rather more business has been done in Chinese "Red Ship" brand and B.P., both on the spot and to arrive. Sales include leads on the spot at 2s. 6d. and tins in cases at 2s. 5d. To arrive, leads for February shipment are quoted at 1s. 8½d.; for tins in cases sales have been made at 1s. 6½d. and drums at 1s. 6d. per lb. c.i.f.

BERGAMOT.—The recent agreement between the Italian Government and producers to stabilise the price does not seem to have had any effect, and 8s. per lb. c.i.f. is now quoted. On the spot, 8s. 6d. to 9s. is quoted, according to seller.

CASSIA is lower on the spot, with sales of 80 to 85 per cent. c.a. at 2s. 10½d., and for February-March shipment 2s. 6d. c.i.f. is quoted.

CEDARWOOD is firm at 1s. 6½d. to 1s. 7d. per lb. c.i.f., and on the spot at 1s. 7d. to 1s. 8d., as to quantity.

CITRONELLA.—Java is higher to arrive at 1s. 9d. per lb. c.i.f., and unchanged on the spot at 1s. 10d. Ceylon is quoted at 1s. 10d. spot, and to arrive at 1s. 5½d. to 1s. 6d. per lb. c.i.f.

EUCALYPTUS, 70 to 75 per cent., is quoted at 1s. 2d. to 1s. 3d. per lb. spot.

GERANIUM.—Bourbon is quoted at 14s. per lb. spot, and is firm to arrive at 11s. 6d. per lb. c.i.f. Algerian on the spot is firm at 16s.

GINGERGRASS is quoted at 7s. per lb. spot and 6s. 3d. per lb. c.i.f. to arrive.

LEMON.—Sicilian is the turn cheaper, hand-pressed offering at from 2s. 10½d. to 3s. 1½d. per lb. on the spot, and at from 2s. 9d. to 3s. c.i.f. Machine-made is offered at from 2s. 4½d. to 2s. 6d. on the spot and at 2s. 4d. c.i.f., with some offers as low as 1s. 11d. c.i.f. for machine made.

ORANGE.—Sicilian sweet is quoted on the spot at from 7s. 10d. to 8s. per lb., as to seller, and 7s. 6d. to 7s. 9d. per lb. c.i.f. to arrive.

PALMAROSA is quoted at 8s. to 8s. 3d. per lb. spot and 7s. 3d. per lb. c.i.f.

PEPPERMINT.—Firm prices are quoted from Japan for dementholised peppermint, with much cheaper sellers from second hands. On the spot, K/S is quoted at from 3s. 9d. to 3s. 10½d. per lb., and other brands at from 3s. 8d. to 3s. 9d. To arrive, first hands quote K/S at 3s. 10½d. and other brands at 3s. 9½d. c.i.f. Business has been done (Wednesday) by second hands at 3s. 5½d. to 3s. 6d. c.i.f. for January-March, and at 3s. 7d. c.i.f. for April-June. American natural tin oil is quoted on the spot at 8s. 6d., and to arrive at 8s. to 7s. 9d. per lb. c.i.f., as to seller. H.G.H. on the spot is 12s. 9d.

SASSAFRAS is quoted at 6s. per lb. c.i.f. down to 4s. 9d. per lb. c.i.f., as to seller and brand.

SPEARMINT is quoted at from 12s. 9d. to 13s. per lb. spot, and to arrive at from 12s. 6d. to 12s. 9d. per lb. c.i.f., as to seller.

WORMSEED (CHENOPODIUM) is offered at 14s. 6d. to 15s. per lb. c.i.f., and on the spot at around these prices.

The following arrivals have taken place from the countries indicated during the period February 11 to 17, inclusive: Cassia (Ch.) 10 cs.; citronella (Java) 2 dm., (Fr.) 1 dm.; lavender (Fr.) 2 cs.; lemon (It.) 32 cs.; lime (U.S.) 7 dm.; orange (Jam.) 42 dm. 20 cs.; peppermint (Jap.) 1 cs., (Ger.) 1 cs.; pine (Ger.) 6 dm.; sassafras (U.S.) 10 cs.; spearmint (U.S.) 3 cs.; undescribed (U.S.) 4 cs., (Fr.) 3 cs.

Pharmaceutical Chemicals, etc.

BARBITURATES are now very steady as quoted. Benzoic acid is a shade easier and sodium benzoate is also a point cheaper. Citric and tartaric acids are inclined to be a trifle easier, with the markets still dull. Phenolphthalein is steadier after last week's reduction.

ACETANILIDE continues quiet and unchanged at 1s. 4½d. to 1s. 6d. per lb., as to quantity, for B.P. crystals and powder.

ASPIRIN meets with a steady demand, controlled prices being unchanged: home trade, 10 cwt., 2s. 7d.; 5 cwt., 2s. 8d.; 1 cwt., 2s. 8½d.; 23 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions, 10 cwt., 2s. 7d.; 5 cwt., 2s. 8d.; 1 cwt., 2s. 8½d.; and less than 1 cwt., 2s. 9d. per lb. f.o.b.; export to other destinations unchanged.

BARBITONE, although in only small demand, remains steady at the quoted rates of about 7s. 3d. to 7s. 9d. per lb. as to quantity.

BENZOIC ACID (B.P.) is moving fairly well, with quantities, ex works, about 1s. 10d. per lb.; spot parcels, about 1s. 10½d. to 1s. 11d., ex store.

BENZONAPHTHOL is offered at the cheaper rate of 2s. 8d. per lb.

BROMIDES.—The fierce competition experienced during the past months has abated to a fair extent and the tone is now fairly steady: ammonium, 1s. 8½d. to 1s. 9½d.; potassium, B.P. crystals, 1s. 4½d. to 1s. 5d.; granular, about 1s. 4½d.; sodium, B.P., 1s. 7d. to 1s. 8d. per lb. as to quantity. Makers' and dealers' prices are level.

CALCIUM LACTATE is steady and business is fair: quoted from 1s. 1½d. to 1s. 3d. per lb. as to quantity.

CHLORAL HYDRATE is a bright item and makers' prices are very steady: duty-paid crystals, 2s. 11½d. to 3s. 1½d. per lb. as to quantity and packing; foreign, on spot, 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—Persistently slow markets are reported; values this week are, if anything, slightly easier at about 1s. 0½d. to 1s. 1d. per lb., less 5 per cent. for foreign on spot. British makers quote 1s. 1d. per lb. less 5 per cent.

CREAM OF TARTAR has remained quiet, but prices are holding up to former rates, with both foreign and home makes on spot at about 85s. 6d. per cwt., less 2½ per cent. British makers quote 84s. per cwt., less 2½ per cent.

CREOSOTE (B.P.) is unchanged on a slow market: spot, 1s. 7½d. to 1s. 9d. per lb. as to quantity.

CREOSOTE CARBONATE is offered on spot at about 5s. 9d. to 6s. per lb., with business small.

GUAIACOL CARBONATE is unchanged on a slow market: dealers quote from 4s. 4d. to 4s. 6d. per lb. as to quantity.

HEXAMINE.—The demand continues fair, with ordinary-sized quantities at 1s. 10d. to 1s. 11d. per lb., and slightly less for large orders.

LACTIC ACID (B.P.) is unchanged at the controlled prices of 1s. 11d. to 2s. 1d. per lb. as to quantity and packing.

METHYL SALICYLATE (B.P.) continues very steady and business is moving well: quoted from 1s. 3d. to 1s. 5d. per lb. as to quantity.

METHYL SULPHONAL is held at the old rates of 12s. 7d. to 13s. 10d. per lb. as to quantity; business limited.

PARA-FORMALDEHYDE ranges in price from 1s. 5½d. to 1s. 7d. per lb., the lower price for bulk quantities; business has been fair.

PARALDEHYDE is of little interest: quoted from 1s. 1d. to 1s. 3d. per lb. as to quantity and packing.

PHENACETIN is steady and business is fairly satisfactory: crystals, 3s. 8d. up to 3s. 10½d. per lb. as to quantity, with powder 1½d. per lb. more.

PHENAZONE is meeting with a moderate business and controlled prices are maintained: crystals, 6s. 11d. to 7s. 3½d. per lb. as to quantity, with powder 1½d. per lb. more.

PHENOLPHTHALEIN is much steadier this week, with at least one outside source of supply off the market. Convention prices are: ten cwt., 5s.; two cwt., 5s. 1d.; less than two cwt., 5s. 2½d. per lb.

POTASH CAUSTIC.—Purified and B.P. has been reduced by 1d. per lb., makers quoting small lots of purified at 1s. 2½d. down to 1s. 2d. for five-cwt. lots. B.P. is 1s. 4d. in small lots down to 1s. 2½d. in five-cwt. lots.

RESORCIN is about unchanged at 2s. 11d. to 3s. 2d. per lb. as to quantity; market has been quiet.

SALICYLIC ACID (B.P.) as quoted by home makers is firm: ten cwt., 1s. 5d. up to 2s. per lb. for 1-lb. parcels.

SALOL is steady but slow of sale: quoted from 3s. 7½d. to 3s. 10½d. per lb. as to quantity.

SODIUM BENZOATE (B.P.) is offered at from 1s. 7d. to 1s. 7½d. per lb. as to quantity.

SODIUM DIETHYLBARBITURATE tends to be firmer, with spot prices about 9s. per lb.

SODIUM SALICYLATE (B.P.) continues at Convention rates, with business largely in home makers' hands. Home trade: powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 23 lb., 2s. 2d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 5d. per lb., with crystals 1d. per lb. more; export prices to all destinations are unchanged.

SULPHONAL is offered on the spot at 10s. 1d. to 11s. 2d. per lb. as to quantity; market is steady but slow.

TANNIC ACID (B.P. *teriss*) is about unchanged at from 2s. 8d. to 2s. 10d. per lb. as to quantity.

TARTARIC ACID (B.P. crystals).—There is no improvement in demand and the market continues unsteady: foreign is offered on spot in quantities from 11½d. to 11¾d., with smaller lots up to 1s. per lb., less 5 per cent.; to arrive,

1s. per lb. c.i.f., less 5 per cent. British makers quote 1s. 0½d. per lb., less 5 per cent.

TERPIN HYDRATE is dull of sale; dealers offer on the spot at from 1s. 4d. to 1s. 6d. per lb. as to quantity.

TERPINEOL is cheaper, offering at 1s. 2d. per lb.

THYMOL shows no further alteration in value, with spot offers of synthetic fine white from 6s. 4d. to 6s. 8d. per lb. as to quantity.

VANILLIN.—The recently-formed Convention continues to operate, with some outside parcels available: ex clove oil, ten cwt., 13s. 6d.; five cwt., 13s. 9d.; one cwt., 14s.; 28 lb., 14s. 3d.; less than 28 lb., 14s. 6d. per lb.; ex guaiacol, ten cwt., 12s.; five cwt., 12s. 3d.; one cwt., 12s. 6d.; 28 lb., 12s. 9d.; 14 lb., 13s.; 7 lb., 13s. 3d.; 1 lb., 13s. 6d. per lb., carriage paid.

Industrial Chemicals, etc.

London, February 18.

FORMALDEHYDE is cheaper on a competitive market. There has been a better demand for acetone, and prices as quoted are about steady. Business generally has been limited in size. Chlorates are holding at the advanced rates notified at the beginning of the new year, but business, so far, has been very slow. ACETIC ACID is meeting with a limited call, and prices are steady: 80 per cent. technical, £36 5s.; 80 per cent. pure, £37 5s. per ton, in barrels, glacial, pharmaceutical, 99 to 100 per cent., £58 per ton, in glass demi-johns; glacial, in barrels, £47 per ton, carriage paid in U.K. ACETONE is holding at former rates, and business has been on a better scale: B.G.S., £60 to £62 10s. per ton, in drums, ex store. ARSENIC has shown unabated firmness, and owing to the dearth of stocks the terms quoted for white Cornish are rather nominal at about £19 per ton f.o.r. mines. Offers are reported from Belgium on the basis of about £17 17s. 6d. to £18 c.i.f., and Mexican high-grade is about £17 15s. c.i.f. Liverpool. COPPER SULPHATE.

—The export demand has been disappointing, which is doubtless partly due to keen Continental competition. The tone of the market, however, is steady with Associated British Makers quoting £21 f.o.b. for casks, less 5 per cent. U.K. exports for last month were only 2,320 tons, compared with 3,296 tons for the same month last year. FORMALDEHYDE shows a fall this week, due to the severe competition for a rather limited business: 40 per cent. by volume, £29 to £30 per ton, in casks, ex store, as to quantity. ISOPROPYL ALCOHOL continues to find fair business with best quality quoted from 10s. 6d. to 11s. per gallon, in drums, carriage paid; lower grades at cheaper prices. OXALIC ACID remains sluggish but is steady; quantities of not less than one ton, £31 10s. per ton; small lots, 32s. per cwt., ex store. POTASH CARBONATE is barely steady, and the demand remains very limited; 90 to 92 per cent., £23 7s. 6d.; 96 to 98 per cent., £25 7s. 6d. per ton, in casks, ex store; lower prices for contracts for quantities. POTASH CAUSTIC. —Convention prices are unchanged, but the market is weak and dull: spot, 88 to 92 per cent. solid, £29 10s. to £34 10s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases. POTASH PERMANGANATE remains neglected with quantities in two-cwt. drums at 4½d. per lb., ex store. SODIUM ACETATE is dull and irregular on quotation in the region of £18 per ton, in casks, ex store. SODIUM HYPOSULPHITE is unchanged, and, for quantities, is easy: dealers quote pea crystals, in one-cwt. kegs, £15 per ton; commercial quality, in casks, £9 2s. 6d. per ton; makers' list price for pure crystals to home consumers on contract, £15 per ton, carriage paid to buyer's works.

COAL TAR PRODUCTS, ETC.—Carbolic acid crystals remain quiet in demand, and makers' prices are barely maintained. Cresylic acid is also a slow market, and some grades are slightly cheaper; naphthalene is easier and methyl alcohol is cheaper. ANILINE OIL and ANILINE SALT are dull and unchanged at 8½d. per lb., packages extra, carriage paid. BETANAPHTHOL is unchanged but slightly steadier at about 7½d. per lb., carriage paid. CARBOLIC ACID.—Crystals have continued in poor demand, and makers' quoted prices are by no means firm; small parcels, 6d.; five-ton lots, 5½d.; 25- to 50-ton lots, 5d. to 5½d. per lb., in drums, with over-casks, carriage paid or f.o.b. Crude carbolic 60's are unchanged and in poor demand at about 1s. 2d. to 1s. 4d. per gallon, naked at works. CREOSOTE OIL continues a keen market, with the demand fair: quantities in bulk, f.o.b., 4½d. to 4½d. per gallon; home trade is unchanged round about 4d. to 4½d. per gallon as to quantity and quality. CRESYLIC ACID is a slow market and some grades are slightly easier: pales, 98 to 100 per cent., 1s. 7d. to 1s. 8d.; dark, 95 per cent., 1s. 4d. to 1s. 4½d.; special qualities, 2s. to 2s. 2d.; American duty-free acid, 1s. 5d. to 1s. 7d. per gallon, f.o.b.

NAPHTHALENE is dull and easier: flakes and balls, about £13 per ton, ex wharf, in cases. METHYL ALCOHOL is cheaper, with the market keen: ton lots, about £39 per ton, in drums, ex store; cheaper rates for large quantities. TOLUOL is quiet and unchanged: commercial 90's, 1s. 9d.; pure, about 1s. 11d. per gallon ex works. XYLOL remains slow of sale and unchanged: commercial, 1s. 8½d.; pure, about 1s. 11d. per gallon at works. PITCH is easy at the quoted figure of 45s. per ton f.o.b. East Coast and business of importance is usually based on a lower value.

Fixed Oils, etc.

ALTHOUGH most of the products in this market have remained quiet there is a rather better tone. Palm oils are now very steady; linseed oil is much steadier and at better rates. ACID OILS are unchanged, with the market still quiet: coconut and/or palm kernel, 19s.; groundnut, 15s.; soya, 14s. spot. CASTOR is slow of sale but steadier: pharmaceutical, 39s.; first pressings, 35s.; second pressings, 32s. per cwt., in barrels, on the spot, in not less than one-ton lots. COCONUT is steadier, although still dull: deodorised, 34s. 6d. spot; Ceylon, 23s. 6d. c.i.f. COTTON is slow and slightly easier: deodorised, 25s. 6d.; common edible, 23s. 6d.; soapmaking, 21s. 9d.; crude, 19s. 6d. spot. GROUNDNUT.—Market remains dull, with values barely steady: deodorised, spot, 30s.; crude Oriental, 23s. c.i.f. PALM KERNEL is quiet but steadier: deodorised, 32s.; crude, 25s. 6d. spot. PALM.—With values for all grades about balancing on the week, the market is now fairly steady and business has been rather better: Lagos, 19s. 6d.; softs, 18s. 9d.; mediums, 18s. 9d.; hards, 19s. 6d.; bleached, 21s. 6d. spot. RAPE is dull but steady: refined, 35s.; crude, 31s. 6d. spot. SOYA is slightly easier and still very quiet: deodorised, 26s. 3d.; crude, 18s. 6d. spot. LINSEED (raw, naked).—Values for all positions show a good recovery on the week, the movement being due to higher rates for seed: on spot, 20s.; February, 18s. 4½d.; March-April, 18s. 4½d.; May-August, 18s. 9d.; September-December, 19s. 3d. Boiled oil, on spot, 22s. 6d. TURPENTINE.—The market fluctuated and closed at well under the recent best, although the Savannah quotation touched 40c. Business has been more active, while a certain amount of reselling was effected at this end. The spot quotation is about 37s. 3d., and March-April stands at 37s. 9d. Last week's deliveries were 1,326 barrels, making a total of 11,361 barrels since January 1. Stocks were returned at 49,307 barrels, which, with spirit in the course of landing, made the total London visible supply 53,764 barrels. This compares with 33,113 barrels a year before. RESIN.—There was a steady advance in prices on better American reports, but demand was not very active, except for early requirements. C.i.f. quotations were as follows: American B 9s. 4½d., D 10s. 0½d., F/G 11s. 3½d. to 11s. 6½d., K 11 9d., M 12s. 3d., W/G 16s. 2d., and W/W 17s. 7½d. Only little interest was shown in French grades and quotations were at 10s. 9d. for F/G, 12s. 3d. for W/G, and 12s. 6d. for W/W, c.i.f. to arrive. WOOD.—Hankow in barrels on spot is slightly easier at 37s. 6d.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Prices are mostly unchanged, while business is anything but brisk. Lubricating oils remain dull, but the spot position seems a little steadier. On spot: pales, £9 to £20; reds, £10 5s. to £20; dark cylinders, £9 15s. to £22; filtered cylinders, £17 to £22 per ton, less 2½ per cent., ex wharf.

Italian Sulphur

ACCORDING to the annual report of the obligatory Sicilian Sulphur Consortium, sulphur-production from August 1929 to July 1930, inclusive, totalled 246,955 tons. This output represents about 7 per cent. increase over the 1928-29 production, and follows a similar increase during 1928-29 compared with 1927-28. Stocks of sulphur with the Consortium on July 31, 1930, were 58,868 tons, compared with only 35,288 tons at the close of the year 1928. According to the Consortium, the upward tendency in sulphur production is attributed in part to the improvement in extraction methods made possible by the credits extended through the Banco di Sicilia, and in part to the eagerness of operators to extract as much sulphur as possible before the expiration of mining rights and application of the new subsoil laws. The Consortium reports that the increase in production during 1929-30, compared with 1928-29, is concentrated almost entirely on the third and fourth grades, the output of the so-called "yellow superior," the first grade, which could have been most profitably increased, having actually declined. However, sales by the Consortium during 1929-30 exceeded output, having totalled 253,525 tons, although during the year only 227,428 tons of the sales contracted for were actually delivered. Unfilled orders on July 31, 1930, were 50,474 tons.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Pharmacy and Poisons Bill

SIR,—I thoroughly agree with all the remarks of "An Old Retailer" in last week's issue of the *C. & D.* How much longer are we going to sit on the fence and calmly submit to all these degrading Acts? This latest proposition is the last straw; and I suggest that pharmacists fight the Bill, tooth and nail, in every possible way under their own organisation. A prominent doctor remarked to me recently that the chemists have no "backbone," and have only ourselves to thank for what we are about to receive.—Yours faithfully,

D. M. LAIDLAW.

Poole.

SIR,—Certain developments have clearly taken place regarding the present Pharmacy and Poisons Bill, and in consultation with those associated with me, at a London meeting on February 18, the following decision was arrived at:—"That the time is opportune for a Pharmacist Watch Committee to be set up, and that the R.P.U. be immediately asked to set up such a body. Failing such steps being taken by the R.P.U., the matter to receive further consideration."—Yours, etc.,

FRANK E. S. CLARKE.

Newport, Mon.

SIR,—Since last I wrote you (*C. & D.*, January 24, p. 110) much, very much, has happened in the little world of pharmacy, commencing with Mr. Clarke's meeting on January 27, at which the promoter appears to have erected the framework of a house which was promptly "adopted" and is now being used by a separate organisation, whose promoters, as Mr. Clarke has pointed out, are not solely interested in pharmacy. There is no doubt as to these gentlemen being in real earnest, but surely zeal has overridden discretion in this case. Neither chemists nor chemist-opticians can be benefited by such tactics, and the high-sounding title heading of the circular which has been sent out during the last week is calculated to produce more derision than support. The formation of a separate association is entirely unnecessary (it is, indeed, dangerous); all that is necessary is the organisation, in order to give it full expression, of the large body of opposition which is known to exist in the ranks of pharmacy. As I pointed out on January 24, if we could get 5,000 chemists to declare absolute opposition to the Bill as it stands, that weight of opinion could be relied on to influence the official bodies in their action, but action should be left to them. The R.P.U. Executive might have saved a good deal of trouble had they sent out the card declaring policy last month instead of last week; but it would be well if Mr. Clarke's executive persisted in their effort.

Yours faithfully,

SCRAPPER (17/2).

SIR,—Most of the delegates attending the conference held in London on January 28 seem to have been easily satisfied, so far as can be judged from the official report (*C. & D.*, February 14, p. 183), but allowance must be made for the fact that the rules of procedure were skilfully planned. By moving his resolution at the beginning of the meeting the president placed himself in the same happy position as at the annual meeting of the Society, with power to control the discussion effectually if it should have tended to get out of bounds. Exception has been taken in my hearing to what was regarded as undue and uninvited interposition of secretarial explanations of various points raised by delegates in the course of discussion, the chairman having apparently grown

weary and disposed to share the conduct of the business of the meeting with his subordinate. This, however, is only one of the signs of the times when amateurs tend to outdo their professional models in Whitehall. Your Government official always has the grace to preface his declaration or explanation with the words: "I am instructed to inform you, etc.," but the amateur is slow to acquire such delicate touches.

Yours, etc.,

KRIES (16/2).

SIR,—In our efforts to oppose the vexatious clauses of this Bill, it seems to me that we are hampered by reason of the almost total disappearance of the local associations and by their replacement by the local branches. Nevertheless, it is to be hoped that each local unit will extort from the district M.P. a promise to examine the Bill carefully in committee and to offer strenuous opposition to such clauses as are detrimental at once to pharmaceutical and to public interests. It is safe to say that no other "qualified" community—doctors, lawyers, accountants, dentists, auctioneers even—would submit to such invasions of their rights as now threaten us. It is hopeless to expect from official headquarters any lead in the matter of approaching our various M.P.s. I have noticed a steady increase in suicide by poisoning; and suspected murder by poisoning is all too frequent. The primary object (let us note this carefully; it is so familiar that we are apt to overlook it) of any previous Poisons Act was so to restrict the sale of poisons as to minimise the risk of their being procured for improper—and in particular for criminal—purposes. The ease with which lysol, arsenical weed-killers, sheep dips and so forth are now obtained from unqualified shopkeepers has indisputably made easier the purpose of the poisoner. Is pharmacy, is the public, to tolerate a further move in this same downward direction? If so, where is the movement likely to stop? Individual pharmacists should make immediate and independent communication to their own M.P.s. The major point is that the fundamental purpose of poison legislation should be preserved.

Faithfully yours,

LEX (16/2).

A Call for Unity

SIR,—After carefully reading the report of the delegates' conference and the many communications that have appeared in the trade journals regarding the Pharmacy Bill, one is forced to the conclusion that what is wanted at this juncture is first a little clear thinking and then some decisive action. The delegates to the conference appear to have joyously signed a blank cheque! They have agreed to let the Council of the Pharmaceutical Society make quite substantial charges for personal registration and for keeping open shop. (I make no comments either on the merits or demerits of the Bill or the capability of the Council to look after our interests at this stage.) The outstanding point to me is that we shall be creating a powerful Society and that our Council will be able to rule us with an iron hand. We have not the slightest guarantee that the Council of the future will not be as oppressive as Councils of the past have been—shall I say?—incompetent. That is not the only danger. Activity of the Home Office with respect to the D.D.A. is not something to be viewed with feelings of security. The proposed Proprietary Medicine Bill is bound to come. The fact that a responsible Government department, the Ministry of Health, is apparently willing to break its word and permit co-operative societies to give dividends to their members with respect to N.H.I. prescriptions, and that an attempt is being made to destroy the good work of the P.A.T.A., is enough, or should be enough, to make every intelligent pharmacist sit up and say: "What am I going to do to protect myself?" It is amazing to find responsible pharmacists talking about setting up a new organisation. The more organisations we set up the weaker we shall be. What we want is a Protection

Society, and we have it. The Retail Pharmacists' Union exists to-day as a strong and powerful body. The delegates who so enthusiastically presented the Society with a blank cheque apparently overlooked the fact that the more money there is paid to the Society the less will there be available for the protection of their business interests. The R.P.U.'s funds are limited because pharmacists are not wealthy men, and it would be a tragedy if the work of the R.P.U. was impeded because its members could not afford to pay what is absolutely necessary for their protection against unjustifiable attacks and encroachments. I suggest a reorganisation of the R.P.U. Its title should be one that would embrace all qualified men. Both in choice of title and activities it should be the "British Medical Association" of the drug trade. It should be possible to include within its ranks every qualified man. For example, there are many hundreds of men, if not thousands, who like myself are not engaged in the retail drug business. At the present time there is no place for us in the existing organisation, and some of us are quite of average intelligence. I am appalled at the idea of setting up any new organisation, and dislike the idea of any particular section of the craft endeavouring to centre round itself a new organisation which, while doomed to failure from the outset, could only injure pharmacy by the division of interests and activities. Thus, I urge the R.P.U. to bring into being forthwith a Pharmaceutical Watch Committee, consisting of its own Executive together with any other pharmacists who they think will be of service to the craft as a whole. Let that Watch Committee function as the pharmacists' watch dog until such time as the R.P.U. sees fit to reorganise itself and become the "B.M.A." of the drug trade. All this talk about new organisations instead of consolidating our existing organisation is sheer nonsense and, if permitted to proceed to its logical conclusion, will place pharmacy at the mercy of any Government department, and leave it helplessly open to attack.—Yours faithfully,

HUGO WOLFF.

Ealing, W.5.

A Question of Title

SIR,—With reference to the letter headed "The British Pharmaceutical Association," signed "J. F. McNeal," I am surprised to find that Mr. McNeal should be using this title in view of the fact that, in a personal interview he had with me a short time ago, he was informed that it was our intention, if and when the Poisons and Pharmacy Bill became an Act, to reconstitute the Retail Pharmacists' Union in such a way as to meet the changed conditions in order that it could include non-proprietor pharmacists, and that we proposed taking the title of "The British Pharmaceutical Association" in that event. It will interest Mr. McNeal to know that at the annual meeting of the Retail Pharmacists' Union, to be held shortly, there will be proposals for amendments to the rules which will give the Executive power to change the title of the organisation to "The British Pharmaceutical Association" and to make such other changes as may be deemed necessary in regard to membership, etc.—Yours faithfully,

G. A. MALLINSON.

Secretary, The Retail Pharmacists' Union.
4 and 5 Queen Square, London, W.C.1

A Sequel to a Meeting

SIR,—Why has Mr. Clarke made so many misstatements in his letter in the *C. & D.* of February 14? He talks of a self-styled body which (to my knowledge) does not exist. The association set up by the meeting at the Imperial Hotel on January 27 is reported in the *C. & D.*, January 31, and reference to this refutes his next statements. Evidently Mr. Clarke is guided by his desire for personal leadership rather than the defeat of the Bill. I wonder if Mr. Clarke would give his permission to my publishing in full his letter of February 10 to myself?—Yours faithfully,

J. F. MCNEAL.

Little Chalfont, Amersham Common.

Hospitals and N.H.I. Dispensing

SIR,—Referring to your editorial and the letter of "Some Hope" in your issue of February 14 (pp. 180, 193), I may say this question has been to the fore from as far back as October 1929, when the Eccles and Patricroft Hospital put in an application to the Lancashire Insurance Committee for inclusion in the N.H.I. list of dispensers, which was immediately turned down. Later they decided to become incorporated as a way out of their difficulties, and applied for incorporation as a limited company by guarantee, with permission to delete the word "limited." The Lancashire Pharmaceutical Committee and the R.P.U. being in close touch with all that was going on, the R.P.U. put in an objection to the clause, "To act as chemists and druggists and dispense N.H.I. prescriptions." The Board of Trade deleted this, as permission to leave out the word "limited" is only given to those associations who do not trade for profit. In due time incorporation was complete, *minus* this clause, and renewed application made to the Insurance Committee, which was turned down on January 19 last, as was a further application on February 16. I wonder if anything further will be done, as the local M.P. has communicated with the Minister of Health, who has replied that "the matter is one between the Insurance Committee and the hospital, and the Minister has no power to determine the matter at issue." I note a printer's error in your article; the figures are 1,200 and 1,400, not 12,000 and 14,000. When the Insurance Act came into force it was frequently stated that it would be a relief to the voluntary hospitals, as, after rendering first aid in minor accidents, etc., the patients would go to their panel doctors; but this particular hospital seems to have catered for panel patients, as I know of minor accidents to arm, etc., which have been kept in almost daily attendance for six weeks or more. I also know of other hospitals where similar conditions obtain, and doubtless many readers of this will know hospitals where this lax system has crept in. If these cases were carefully watched by the secretarial department much saving of time and money would ensue. I also know a hospital where this point was carefully watched with considerable saving both in dressings and time, and the staff were able to devote more attention to the reduced number of patients. The ardent advocates of this scheme have their eye on dressings and drugs, but we do not hear of their desire to dock the medical men of part of their fees. I wonder why this is, for this extra attendance must have occupied the time of doctors and nurses. Individuals and Pharmaceutical committees should watch these points, and if they find any attempt of a hospital to get on the panel for their patients (it is permissible for the house surgeon to be on for the employees), they should communicate with the secretary of the R.P.U. at once.

Yours faithfully,

WILLIAM I. SCHOLES.

Eccles.

SIR,—I notice that your correspondent "Some Hope" says this matter should receive the serious attention of the Retail Pharmacists' Union Executive. It may interest him and your readers to know that it has received the attention of the Executive; and in the particular case to which the letter refers, it was owing to representations made by the Retail Pharmacists' Union that the Board of Trade deleted the provision regarding trading as a chemist and druggist from this company's articles of association. Your correspondent can rest assured that the matter is being watched very closely.—Yours faithfully,

G. A. MALLINSON,

Secretary, The Retail Pharmacists' Union.
London, W.C.1.

An Extraordinary Statement

SIR,—Replying to Mr. Davies when giving evidence before the Select Committee on Shop Assistants (*C. & D.*, February 14, p. 172), Mr. H. H. Marshall is

reported to have answered the question, whether the number of prescriptions had not increased enormously, thus: "You cannot distribute something like £2,000,000 among 10,000 shops without increasing the prosperity of these shops." Considering that 75 per cent. of our most profitable lines are now supplied on the panel at tariff rates, I refute this statement entirely, and consider it most misleading if not injurious to our interests. To Mr. Davies's question, "Can you tell me how far multiple shops have grown in this country to the detriment of the smaller man?" Mr. Marshall replied: "I am satisfied that the advent of the multiple chemist has not been on the whole detrimental to the proprietor chemists of the country." I had to read this two or three times before believing my own eyes. How many practising chemists could endorse such amazing statements? It is difficult to imagine that Mr. Marshall has, in recent years, spent a single day behind a chemist's counter. If these are the opinions of the chairman of the R.P.U. executive, may Heaven help us!—Yours faithfully,

O. ROUTLY.

Heacham.

Co-operative Societies' Dividends on Insurance Dispensing

SIR,—From reading last week's "Westminster Wisdom" and your remark at the foot thereof, it looks as if in the near future we shall be paying patients a penny per prescription to bring them to the pharmacist! That seems to be the obvious result if the words of Miss Lawrence become fact. In face of this sort of thing we find men amongst us quite willing to sell themselves to the co-operative societies, regardless of the injury they are doing to themselves in the future; for the assistant of to-day is the proprietor of to-morrow.

Yours, etc.,

N.H.I. (16/2).

Draft Proprietary Medicines Bill

SIR,—The writer of the article headed "Amateur Draftsmanship" on page 182 of last week's CHEMIST AND DRUGGIST has apparently forgotten, or overlooked, Section 20 of the Interpretation Act, 1889, which provides that in every Act of Parliament "expressions referring to writing shall, unless the contrary intention appears, be construed as including references to printing, lithography, photography and other modes of representing or reproducing words in a visible form." I may add that, according to my information, the Proprietary Medicines Bill emanates from a section of the Labour Party, and I do not think that Sir Graham Harrison or his assistants have any responsibility for the draftsmanship.—Yours faithfully,

CYRIL H. KIRBY.

29 Red Lion Square, London, W.C.1.

Pharmacists in Public Institutions

SIR,—The recent decision on the part of the London County Council to employ only pharmacists as chief and first assistant dispensers has now been followed by a similar resolution on the part of the West Ham Corporation. At the recent annual dinner of the West Ham and District Association of Pharmacists it was announced by the borough treasurer that, in future, dispensers in institutions under the control of the West Ham Council would be required to possess one of the statutory qualifications of the Pharmaceutical Society. This important decision, which follows representations on the part of the Guild of Public Pharmacists and the West Ham Association, will materially strengthen the claims for recognition of their qualification by hospital pharmacists in connection with the new Poisons Bill, and also the Ministry of Health inquiry as far as the public health services are concerned.—Yours, etc.,

F. G. HOBART.

64 Wray Crescent, London, N.4.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

SCOTIA (9/8).—PILLS.—These are small (2 grain) ovoid pills with a bright red coating, with contents similarly but more lightly coloured. The mass, naturally pale coloured, contains a small but substantial quantity of combined iodine. Quite probably they consist of thyroid, although this was not definitely proved.

S. D. C. (2/12).—ABORTION REMEDY FOR CATTLE.—Composed of magnesium sulphate crystals about 95 per cent. and potassium nitrate fine crystals about 5 per cent.

H. W. H. (27/18).—Without knowing the composition of the fruit-tree wash it is somewhat difficult to suggest a suitable powder for mixing with it. Liver of sulphur appears to meet your requirements, i.e., a highly odorous powder, soluble in water, harmless to vegetable life, and inexpensive.

R. B. W. (27/1).—We presume you have in mind a lotion intended to promote the growth of hair by so-called hair drill. Obviously an oily preparation is unsuitable for this purpose, and as a result of a series of tests we would suggest the following formula:—

Tinct. quillaia.		
Alcohol ammoniac	...	aa. ʒiv.
Glycerin	...	ʒiss.
Alcohol isopropyl.	...	ad ʒviij.

Perfume to pleasure.

Legal Queries

A. M. C. (3/2).—Since oxalic acid is included in Part II of the Poisons Schedule its sale is restricted to registered chemists and druggists. Therefore, the sale of oxalic acid by a person who is not a registered chemist is illegal.

G. E. C. (24/1).—Only Indian hemp and the resins obtained from Indian hemp, extract and tincture of Indian hemp when supplied *per se* come within the provisions of the Dangerous Drugs Acts. Consequently, preparations in which extract or tincture of Indian hemp is present in addition to other therapeutic agents—for instance in corn paints and corn plasters—are exempt. This was explained in an editorial note in the C. & D., January 5, 1929, p. 18.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," February 15, 1881

Questions that Encourage "Cram"

An examiner in chemistry at Bloomsbury Square asked a candidate what was the action of the diamond on glass. "It cuts it," was the very natural reply. "Yes; but what else?" rejoined the examiner, and he was surprised that the candidate should go away and say that he had been asked to tell what chemical effect the diamond had on glass. The examiner and the candidate each thought the other stupid. Now, there is a line somewhere in Fownes which tells that the diamond has a cleaving action on glass. If the candidate had only been primed to that little wrinkle he would have been patted on the back as a clever fellow. Such questions directly encourage cram, and, indeed, make it necessary.



[Commenced C. & D. July 5, 1924]

Tender.—Where a claim is made for payment of money—whether a specific amount or an unascertained amount, as in the case of damages—the person against whom the claim is made may tender to the person by whom it is made a sum, in cash, in satisfaction of the claim. The tender must be absolute and unconditional, and the money offered must be actually produced at the time. Tender may be made under protest. If the sum tendered is not accepted and legal proceedings result, the amount tendered should be paid into Court and, in that way, payment of costs upon the whole or part of the claim can be avoided. (See Payment into Court.) If the sum tendered is £2 or more, the person making the tender can demand a receipt if he presents a receipt correctly made out and stamped.

Tender, Legal.—Gold and Bank of England notes are legal tender for any amount; silver currency, for amounts not exceeding 40s.; and copper, for amounts up to 1s.

Testator.—A person by whom a will is made is called a testator, or, in the case of a woman, a testatrix. (See Will.)

Testimonials.—See Assistants' References.

Theobromine, $C_7H_8O_2N_4=180$, is an alkaloid obtained from leaves and seeds of *Theobroma* sp., and occurs as a micro-crystalline powder, m.p. 337° C., slightly soluble in water and alcohol, soluble in ether. It is used in the form of salts medicinally as a diuretic and nerve stimulant, chiefly as theobromine sodium salicylate (Thr) $C_7H_6O_3=318$, which forms fine white needles slightly soluble in water.

Theophylline, $C_7H_8O_2N_4 \cdot H_2O=198.2$, is an isomer of theobromine obtained from tea leaves. It occurs in colourless needles, m.p. 264° C., is slightly soluble in water, alcohol or ether, and is used medicinally as a cardiac stimulant.

Thigenol is a solution of sodium sulpholeate, a dark brown liquid used as an antiseptic.

Thiocarbamide is the same as thio-urea, $NH_2 \cdot CS \cdot NH_2$, which occurs as colourless prisms, s.g. 1.42, m.p. 180° , slightly soluble in water.

Thiol is the monovalent radical (SH).

Thuja Oil.—This oil is obtained by the distillation of the leaves and small twigs of *Thuja occidentalis*, the well-known "Arbor Vitæ," also known as the white cedar. The raw material yields from 0.4 to 1 per cent. of a nearly colourless oil, which, on keeping, becomes yellow or greenish in colour. The oil has a somewhat unpleasant odour, recalling that of oil of tansy. There is a thuja oil obtained from the leaves and young shoots of *Thuja plicata*, but it is not a commercial article. The two oils have the following characters:—

	<i>Thuja occidentalis</i>	<i>Thuja plicata</i>
Specific gravity..	0.910—0.935	0.913
Optical rotation ..	-5° to -15°	-4.8°
Refractive index ..	—	1.4552
Acid value ..	0—1	0.5
Ester value ..	18—25	2.3
Ester value (acetylated)	about 40	8.8

Wallach elucidated the chemistry of this oil, and identified α -pinene, *l*-fenchone, and the isomeric ketone thujone,

which is also present in oils of tansy, sage and worm-wood. Traces of esters and of *l*-borneol are also present. Thujone, the characteristic constituent and principal odour bearer, is a ketone of the formula $C_{10}H_{16}O$, having a specific gravity 0.9125; optical rotation $-10^\circ 23'$; refractive index, 1.4510; and boiling point, 200° – 201° . Thuja oil is used to a small extent as a fixative in perfumery.

Thus.—Common frankincense or gum thus is rare in European commerce, and has been derived during the ages from various sources. The name thus has been traced to the Greek *θειον*, to sacrifice, and refers to offering or incense used in religious ceremonies. In Ptolemy's map of Arabia the coast line from Oman to Hadramant was called *Libanopteros Regio*, the place of incense, and by Pliny, *Regio Thurifera*, the region of frankincense. This identifies the thus of that country with olibanum, the oleo-gum-resin derived from species of *Boswellia*. This was called *Thus masculum* in early days, and olibanum is still one of the chief ingredients of incense distributed from Bombay to all parts of the world. *Thus Libycum* was used for fumigation in Europe at one time, and Dr. Dymock believes that it was a product of *Ferula Tingitana*, Linn., growing in Morocco. More recently thus is produced from trees of the conifer tribe. Hanbury suggested that it might be yielded by *Abies excelsa*, D.C., the origin of the Burgundy pitch produced in Finland and Austria. The resin is in the form of tears hardened by age, internally white and opaque, with a broken surface, acquiring a pinkish hue. The odour is terebinthinate, cheesy, rather aromatic, and the taste slightly bitter. *Thus vulgare* or *Thus Americanum* is produced from various species of pine in America. *Pinus palustris*, Mill. Long-leaf pine. *P. Taeda*, Linn. Loblolly pine. *P. Cubensis*, Gries. These trees yield commercial oleo-resin, which is separated by distillation into turpentine oil and resin. But the thus is the incrustation or concrete oleo-resin hardening by exposure near the incision. This is called "scrape," which is scraped off and forms common American frankincense. It is a pale opaque resin.

Thyme.—Among the Greeks thyme was an emblem of courage. With the Romans it was a remedy for melancholy, and the use of thyme tea for its reviving and refreshing qualities has been observed in most European countries. There are many botanical sources of the herb, but *Thymus vulgaris* L., growing chiefly on mountains in the South of France, is perhaps the better known species. It is a small plant, with thin, wiry, dark stems and orbicular leaves, with glandular spots. In India, *Thymus serpyllum* is a medicinal herb which grows in the Himalayas, Persia and Europe, and was identified by Ibn Sina, as the *θυμος* of the Greeks. It is an antiseptic, and is used to relieve the bites of venomous insects and animals. An infusion is given to people with weak lungs. There are numerous species of thyme, and like other members of the fragrant group of labiatae, they are mostly utilised for the preparation of an essential oil. Thyme oil varies in properties and composition according to the different species employed and the different districts where it is distilled. It is a dirty, dark reddish or greenish brown liquid, with a pleasant strong odour of thyme, and a pungent, sharp, persistent taste. As importance in some markets is placed on the colour, turpentine oil is occasionally mixed with it to make white oil of thyme. This is the reason why the so-called rectified oil is quoted at lower prices than crude oil. Another peculiarity in thyme oil is that the phenolic content or chief constituent may consist of (a) thymol, (b) carvacrol or (c) citral, or a mixture of the three. What conditions favour the occurrence of one or other of these bodies is not ascertained. So far it has been impossible to distinguish botanically the different varieties growing side by side of plants yielding varying constituents. The oil of *T. vulgaris*, whether grown in the South of France or in Italy, has a phenolic content, consisting almost entirely of thymol. The oil of *T. striatus* contains a mixture of thymol and cymene. *T. herba-barona* and *T. capitatus* afford oils in which carvacrol is the chief component of the phenols. In Spain there are over thirty species of thyme, and although the phenol content of the oil is high, Spanish

The C.&D. Commercial Compendium

oil, as a rule, consists of carvacrol and not thymol. The phenol in French and German oils is usually thymol. Hanbury pointed out that oil of origanum, sold in Europe in his day, was in reality oil of thyme, imported from the South of France. The oil of all these plants is used in perfumery and as a disinfectant.

Thymol.—Thymol is a phenol, which is the main constituent of many varieties of thyme oil, and of ajowan seed oil, and which is also produced artificially. It is a colourless crystalline compound with a characteristic odour of thyme oil, melting at 50° to 52°, and boiling at 232° to 234°. It occurs in many essential oils, the main examples being appended:—

	Per cent.
<i>Monarda punctata</i> (U.S.A.)	64—80
<i>Thymus vulgaris</i> (Spain)	50—70
<i>Origanum hirtum</i> (Spain)	50—60
<i>Ptychotis Ajowan</i>	45—55
<i>Origanum virens</i> , var. <i>siculum</i>	50
<i>Mosla japonica</i>	44—50
<i>Cunila mariana</i>	40
<i>Thymus vulgaris</i> (Italy)	38
(Africa and England)	32—40
<i>Ocimum viride</i> (Sierra Leone)	32
<i>Thymus vulgaris</i> (France)	20—40
<i>Thymus striatus</i> (Italy)	30
<i>Monarda punctata</i>	20—30
<i>Origanum floribundum</i>	25
<i>Thymus vulgaris</i> (Germany)	20—25
<i>Satureja thymbra</i>	19
<i>Thymus capitatus</i> (Spain)	6
<i>Origanum vulgare</i> (Rome)	2.2—6.7

Thymol is prepared from those oils which contain sufficient of it by extracting the oil with caustic soda solution and liberating the thymol from the alkaline solution thus obtained. Blaque advocates the use of the oil from *Ocimum gratissimum* for the extraction of thymol. *O. gratissimum* is a vigorous plant from 3 to 5 feet high, and occurring largely in the East Indies, Ceylon and Java, tropical Africa and tropical America. The distillation of the flower heads should be effected at once after cutting, as the oil yield suffers considerably if the heads are allowed to dry. An average yield is 0.60 per cent. by weight of the fresh herb. Oil from Dabakala has shown 56.29 per cent. total phenols and 39.15 per cent. crystallisable thymol. Dr. Blaque also summarises the principal thymol-producing plants of the world as under:—

Plant	Origin of sample	Part distilled	Per cent. of oil	Per cent. of oil in	
				Total phenols	Crystallisable thymol
<i>Carum copticum</i>	B. India	Seeds	3—4	—	45—50
" "	Seychelles	Seeds	9	—	38
" "	Montserrat	Seeds	3.1	—	54
" "	Milititz	Entire plant	0.12	—	1
<i>Thymus zygis</i> ..	Spain	Flowering plant	1.048	74.11	51.18
<i>Ocimum gratissimum</i>	Ivory Coast	Stems & leaves	0.60	56.29	39.15
<i>Ocimum viride</i> ..	Seychelles	Leaves	0.50	62	?
" "	"	Flower heads	0.45	52	?
" "	Sierra Leone	Leaves	0.35	—	32
<i>Mosla japonica</i>	Seychelles	—	—	—	37
" "	Japan	Flower heads	1.3	—	50
<i>Monarda punctata</i>	U.S.A.	—	.3 to .4	72—74	64.3
" "	Montserrat	Leaves	0.27	60.4	44
<i>Thymus capitatus</i>	Spain	Flowering plant	1.034	63.98	?
" "	Tunisia	"	1.875	52.91	?
<i>Thymus Broussonetii</i>	Morocco	"	0.884	57.23	?
<i>Thymus vulgaris</i>	France	"	.4 to .5	—	20—30
<i>Cunila mariana</i>	U.S.A.	Entire plant	0.7	40	?
<i>Satureja thymbra</i>	Spain	"	—	—	19
<i>Origanum vulgare</i>	Sicily	Flowering plant	1.106	—	50
" <i>hirtum</i> (var. <i>albiflorum</i>)	Dalmatia	Entire plant	3.3	66—67	51—60
" <i>maru</i>	Syria	"	—	57—74	?
" <i>floribundum</i>	Algeria	"	—	—	25

There are many methods for the artificial preparation of thymol, the subject of numerous patents, but nearly, if not quite, all of these processes have one common drawback in that the yield of thymol is too small to be commercially practical. As an example, J. W. Blagden's process (No. 197848) may be explained. Thymol has been made by condensing mono-sulphonated *meta*-cresol with isopropyl alcohol, but the condensation is accompanied by the formation of a large number of by-products, so that the thymol yield is small and difficult to purify. The present patent seeks to avoid these by-products by condensing polysulphonated *meta*-cresol with isopropyl alcohol. For this purpose, the cresol may be first sulphonated under conditions adapted to produce di- or even tri-sulphonic acid of cresol and the product may be condensed with isopropyl alcohol; the sulphonic acid groups are afterwards removed by suitable treatment. For example, 54 parts by weight of *meta*-cresol may be added slowly, while cooling, to 125 parts of oleum containing about 88 per cent. of total SO₃, and the mixture heated for some hours. To the mixture may be added slowly a solution of 35 parts of isopropyl alcohol in 50 parts of sulphuric acid of 98 per cent. strength, and the mixture is kept for several hours at 80° to 90° C., and stirred. It is then kept at about 130° C., and treated with a current of steam, whereby the thymol is distilled. After removing a small amount of a by-product insoluble in alkali, 50 to 55 parts of oil are obtained, consisting chiefly of thymol and containing a small amount of isomer melting at 114° C.

Thyroid.—The British Pharmacopœia, 1914, gives under the heading "Thyroideum Siccum," directions for preparing a dull-brown powder from the fresh and healthy thyroid glands of the sheep; this powder is the only form of thyroid gland official in this country. The gland itself consists of two almond-shaped lobes and a bridge or isthmus of tissue, and is situated near the larynx and upper part of the trachea. Each lobe weighs about 35 gr., and yields about one-fourth of its weight of dry thyroid. No process of assay is given; the U.S.P. X, however, has an assay method for the estimation of the iodine, which should be present to the extent of "not less than 0.17 and not more than 0.23 per cent." The same authority limits the moisture content to 6 per cent., and the ash to 5 per cent.; it also differs from the B.P. in allowing the glands to be taken from other domestic animals in addition to the sheep. A different assay process is given in the British Pharmaceutical Codex. The B.P. dose is from ½ gr. to 4 gr. One part of the dried and powdered gland is usually regarded as equivalent to five parts of the fresh gland, though Martindale (19th ed.), R. R. Bennett ("Year-Book of Pharmacy," 1914, 29) and others consider this ratio too high. Some makers standardise the iodine content. The introduction of thyroid into medicine in this country is attributed to the late Sir Victor Horsley ("British Medical Journal," 1890, I, 287), who employed the grafting method. In 1891 G. R. Murray began using hypodermically a liquor thyroidei prepared to a formula of his own; administration by mouth followed soon afterwards. Liquor thyroidei was official in the B.P., 1898, but was discontinued in the Pharmacopœia of 1914. A similar preparation, extractum thyroidei liquidum, is in the B.P.C. The possibility of ill effects from an overdose suggests caution in scrutinising prescriptions for dry thyroid. It has been used with success in myxœdema and cretinism, and with varying results in obesity, arteriosclerosis and other complaints. *Thyroidin* is a term used, principally on the Continent, for a powdered substance obtained from thyroid glands. *Parathyroid* is the name applied to the substance obtained from parathyroid glands, four small bodies attached to or embedded in the thyroid gland. It contains no iodine. Its use, in doses of from ⅓ gr. to 1½ gr., is indicated in paralysis agitans, epilepsy, paroxysmal tachycardia and other ailments; its action is not yet clearly understood, though it is believed to control or help to regulate calcium metabolism.

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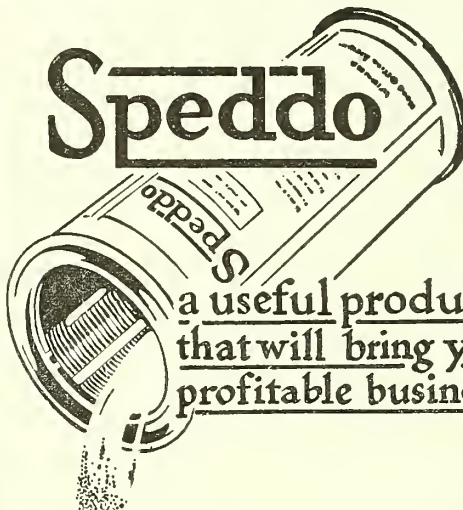
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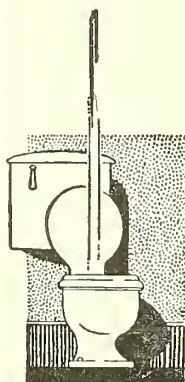
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ASK FOR SAMPLE AND PRICES

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL.

Telephone: Giffnock 414 (2 lines).

Telegrams: "Perryope, Nitshill."

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE.

MIDGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY, LEEDS.

· APOLLO · PURE LIQUORICE JUICE

Soluble : Smooth : Free from Grit : Well shaped stick : Rich in Glycyrrhizin.

Packed in 4lb. Cartons, Cases about 1 cwt. No charge for Bay Leaves.



MACANDREWS & FORBES, LTD., BUSH HOUSE, ALDWYCH, LONDON, W.C.2

TEL. ADD.: "MACFORBES, ESTRAND, LONDON."

Established 1857

TEL. NO.: TEMPLE BAR 5392 (PRIVATE BRANCH EXCHANGE.)

WHOLESALE ONLY**CHAS. ZIMMERMANN & CO.****(CHEMICALS) LTD.**TELEPHONES :
ROYAL 1866 (four lines).**9-10 St. Mary-at-Hill, LONDON, E.C.3.****CHEMICALS**
PHARMACEUTICAL
PHOTOGRAPHIC
TECHNICAL

Acid Tartaric	Pancreatin
Acid Tannic	Phenolphthalein
Adrenalin	Phenacetin
Aspirin	Quinine Salts
Benzo-Naphthol	Saffron
Bromides	Salol
Carmine	Sugar of Milk
Diastase	Sulphonal
Lysol	Salicylates
Male Fern Extract	Thymol
Methyl Sulphonal	Yohimbin
Acid Phenyl Ethyl Barbituric, &c., &c.	

TRADE MARK

**SPECIAL
MEDICAL
PREPARATIONS**

include :

Angiolympe (*Dr. Rous*)
 Asthmolysin (*Dr. Weiss*)
 Bilival (*Ingelheim*)
 Cadechol (*Ingelheim*)
 Camphogen (*Ingelheim*)
 Chinosol (*Original*)
 Devatol-A
 Incitamin
 Kathiclan (*Marcussen*)
 Lobelin (*Ingelheim*)
 Lysol (*Dega Brand*)
 Necaron (*Ingelheim*)
 Pagenstecher's Eye Lotion
 Papain (*Dega Brand*)
 Pebeco (*Beiersdorf*)
 Pericholan (*Ingelheim*)
 Posterisan
 Subitol
 Subitine
 Terpichin
 Zedero Bandage

SYNTHETIC AND AROMATIC CHEMICALS
NATURAL FLOWER PRODUCTS
ESSENTIAL OILS, COMPOUNDS, CHLOROPHYL
PURE FOOD GELATINES

Many
Leading Physicians
in Great Britain and Ireland
are now prescribing

Guaiasote



This preparation has the following properties:

Stomach and Intestinal Antiseptic,
Stomach and Intestinal Tonic, Relief
of Head Colds, Coughs and Winter
Colds. For Deep Seated Coughs.
For Fermentative Dyspepsia.

It is composed of Guaiacol, Creosote,
Quinine Sulphate, Strychnine
Hypophosphite and combined
Hypophosphites.

Guaiasote is supplied in 16 oz. and
4 oz. bottles, with free samples (2 oz.)
for Physicians by

Rexall Chemists

Enquiries to:—

UNITED DRUG CO. LIMITED,
Manufacturing Chemists
NOTTINGHAM.

ROBUVAL

*Elixir Strontii
Bromid. et Valerian
Deodorat.*

AN EXTREMELY PALATABLE
CALMATIVE & NERVE SEDATIVE

8 OZ.
BOTTLES **3/6**

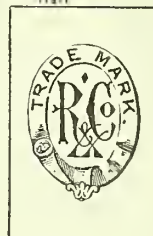
*Prepared and
extensively advertised by*

ROBERTS & CO.

Pharmaciens,

76, NEW BOND ST.,
LONDON, W.1,

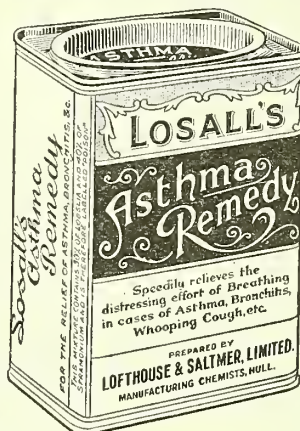
and at PARIS.



30 years' test—

Has proved remarkably
:: the value of ::

LOSALL'S ASTHMA REMEDY



Profit protected
P.A.T.A.

1/6

12/- doz. net.

Show cards and
samples for free
distribution on
application.

**Lofthouse & Saltmer, Ltd.
HULL.**

Glycerophosphates
'MERCK'

E. MERCK DARMSTADT



E-MERCK

H. R. NAPP LIMITED,
3 & 4, Clements Inn,
LONDON, W.C.2

Telegrams :
"Nappchem, London."

Telephone :
Holborn 1444 (2 lines)

OLEO RESIN CAPSICUM
JUNIPER BERRY OIL
PEPPERMINT OIL — ALKANNIN

MANUFACTURED BY :

BITTERA
BUDAPEST

SELLING AGENTS :

THE BRITISH HUNGARIAN TRADING CORPORATION
PORT OF LONDON BUILDING, LONDON, E.C.3.
(Phone : ROYAL 3917-9, ROYAL 4048.)

Put our name on your lists!

QUININE

QUINIDINE
CINCHONINE
CINCHONIDINE

Sugar-coated Quinine Tablets and Pills.

and

SALTS

Gelatine-coated Oval Pills.

BANDOENG
JAVA

BANDOENG QUININE FACTORIES

AMSTERDAM
De Wittenkade 43-50.

Telegrams : "Kininetabrick Bandoeng."

Samples, prices and particulars on application.

Telegrams : "Semadmy Amsterdam."

GALLOWAY'S COUGH SYRUP

*SHOWS OVER 50% PROFIT
WHEN BOUGHT ON BEST TERMS*

A £5 ORDER

ENTITLES YOU TO

**10% DISCOUNT & 2½% FOR PROMPT CASH
WITH A BONUS OF
½ DOZ. 1/3 SIZE OR ¼ DOZ. 2/6 SIZE
FOR 14 DAYS WINDOW DISPLAY.**

1/3 SIZE 12/- PER DOZ.

2/6 „ 24/- „ „

CARRIAGE AND PACKING FREE IN UNITED KINGDOM

**LOOK TO YOUR STOCKS AND
SEND YOUR ORDER NOW**

**P. H. GALLOWAY, LTD.
LONDON, S.E.17**

IMPORTANT NOTICE TO THE TRADE!

CHANGE IN OWNERSHIP AND TERMS

Owing to advancing years, Mr. G. H. Proctor has decided to retire and the Business of

PROCTOR'S PINELYPTUS PASTILLES

together with complete manufacturing and proprietary Rights has been transferred to NUMOL LTD.

To bring the selling arrangements into line with the Numol Policy, the Wholesale Price to Chemists has been altered and the

PRICE REDUCED—

to 11/3 per dozen, as from February 1st, 1931, and the Retail Selling Price of 1/3 per tin will be

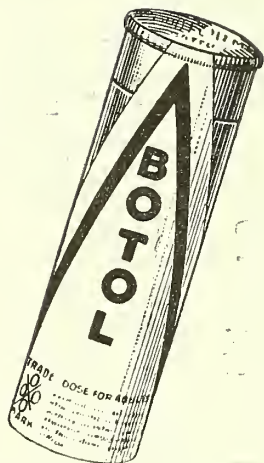
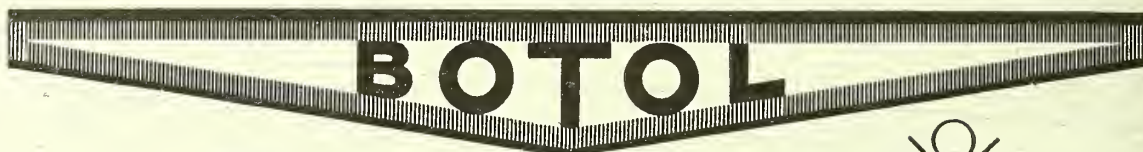
FULLY PROTECTED

As soon as suitable arrangements can be made a new range of display material will be available, and chemists who are interested are invited to communicate with the Advertising Department, NUMOL LIMITED, Newcastle-on-Tyne, so that a supply of the new Show Goods can be mailed to them immediately it is ready.

NUMOL

LIMITED

NEWCASTLE-ON-TYNE



REG. TRADE MARK.

A LARYNGEAL NARCOTIC

Prepared by a new process which enables SOLID BROMOFORM to be combined with CODEINE

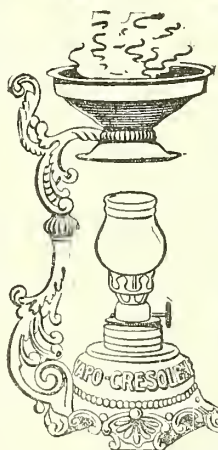
IN TUBES OF TWENTY TABLETS

2/9 per tube

FROM YOUR USUAL WHOLESALER OR



Vapo-Cresolene



The great vaporised anti-septic, gives relief at once.

For nearly 50 years Vapo-Cresolene has been known and sold throughout the world as the reliable remedy for bronchial troubles such as

COUGHS, COLDS, INFLUENZA, BRONCHIAL ASTHMA, CROUP, BRONCHITIS, AND WHOOPING COUGH.

AN

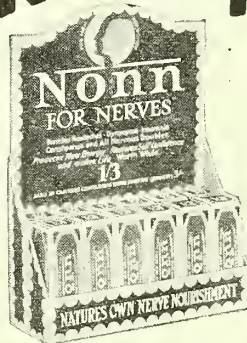
EXTENSIVE ADVERTISING CAMPAIGN

is now running and will continue throughout the whole of the winter.

STOCK AND SELL VAPO-CRESOLENE.
QUICK SALES,
SUBSTANTIAL PROFITS,
SATISFIED CUSTOMERS.

ALLEN & HANBURYS LTD., Lombard Street, E.C.3.

KEEP NONN TO THE FORE!



There is a steady demand for Nonn in all parts of the country. Enquiries for our booklet come from every town and village. Chemists who stock and display Nonn in one of these attractive containers enjoy a steady sale created by our advertising. So keep Nonn to the fore!

Nonn FOR NERVES

RESTORES SELF-CONFIDENCE

Prices and Particulars:

NONN IS SUPPLIED IN RED CARTONS FOR MEN AND IN BLUE CARTONS FOR WOMEN

P.A.T.A. 1/3 per carton, Wholesale 11/3 per dozen
P.A.T.A. 3/- per carton, Wholesale 27/- per dozen

Sole Distributors: Proprietors of Nonn Ltd.
45 Gordon Square, London, W.C.

DRUG HOUSES OF AUSTRALIA**AGENCIES PROPRIETARY Ltd.**

Provide service for full distribution throughout each state of Medicinal, Toilet or other Proprietary Preparations. Branches employ expert salesmen in each Capital City.

Manufacture of any preparation undertaken at fully equipped factories, under control of experienced and qualified pharmacists.

Heavy duties and other importing charges avoided.

Quotations for manufacturing on application.

Agencies sought, correspondence invited.

Australian Address:

G.P.O. Box 531E, MELBOURNE

London Representatives:

GRIMWADE RIDLEY & CO.,

ST. JOHN'S HOUSE,

124/7 Minories—E.C.3

Brooks and Warburton

(A.D.S. Co.) Ltd.

CALCIUM-SANDOZ

DEXTRI-MALTOSE

FELAMINE

FEMERGIN

GLUCOSE-SANDOZ

HORMOTONE

LIQUID PEPTONIDS

NEO-CULTOL

PYORRHOCIDE

TRYPSOGEN

*Distinguished
Pharmaceuticals
for
Dispensing
Chemists*

232-240 Vauxhall Bridge Rd., London, S.W.1

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

Retail Prices

Liquid Yadil or Yadilets
(Yadil Tablets), 1/3, 3/-,
4/9, 12/-, 22/6.
OINTMENT 1/3 per tin.
PASTILLES, 1/- per tin.
SOAP 1/- per tablet.

YADIL

THE CERTIFIED SAFE ANTISEPTIC

The Antiseptic which
is Certified by Public
Analysts and Pathol-
ogists as safe for
Internal and External
use.

YADIL PRODUCTS (1925), Ltd., 59, Sicilian House, Sicilian Ave., London, W.C.1

'Petrolagar'

(Regd Trade Mark)

Specialists and General practitioners have pronounced 'Petrolagar' Brand Paraffin Emulsion to be an outstanding pharmaceutical achievement and their continual prescribing means increased sales and more profit for the chemist.

'Petrolagar' gives results—results mean satisfied customers.


*Order supplies from your wholesaler to
meet the rapidly increasing demand.*

PETROLAGAR LABORATORIES LTD., BRAYDON ROAD, LONDON, N.16

Phone : CLISSOLD 7572.



Guaranteed Pure and Free From Preservatives



EDME Ltd. will be pleased to quote you for
"NATIONAL MARK" MALT PRODUCTS.
 Guaranteed made from English Barley Malt
 Prices on application

"EDME"

Malt Extract with Cod Liver Oil
 Customer's own name and address printed on label.

Write for Samples and Trade Terms to:
EDME Ltd., 122, Regent St., LONDON, W.1. Telephone: REGENT 7525.
 Telegrams: "EDME, PICCY, LONDON."

ESTABLISHED 1793.

The Best and
 Safest Infants'
 Medicine of
 over 130 years'
 standing.

ATKINSON & BARKER'S
INFANTS' PRESERVATIVE

Does not
 contain
 any
 Scheduled
 Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER

Season—1930



Agent for Scotland:
ANDREW STEVEN,
 7 York Street, Glasgow.

COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers:

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.
 LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.
 SPECIALITY—Cattle and Poultry Feeding Oils.

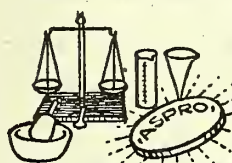
Stocks always held in London.

In 25-gallon tin-lined barrels.

SOLE AGENTS
 FOR U.K.:

FREUDENTHEIL, SMITH & CO.

Tel. Add.: "FREUDENRUF." 21 Mincing Lane, LONDON, E.C.3. Tel.: ROYAL 6600.
 Codes used: A B C, 4th and 5th Edit., Bentley's, and Private.



The 'Aspro' Review



17% Extra Profits.

"British to the Core"

New Series Display Features.

Buying 'ASPRO' on Bonus Terms Means Over 3/- in the £ MORE PROFIT

'ASPRO' Sales					'ASPRO' Sales				
Retail					Retail				
Out	1 doz	ASPRO	27	11 6	Nov 3	1 doz	ASPRO	27	6 18
"	7 2	"	27	1 3 0	FREE BONUS				
"	10 1	"	27	11 6	"	2 doz	ASPRO	1	10
"	14 2	"	"	1 3 0	£ 8 8				
"	17 1	"	27	11 6	Extra Profit				
"	21 2	"	"	1 3 0	£ 11/10/-				
"	24 2	"	27	1 3 0					
"	30 1	"	"	11 6					
				£ 6 18 0					

THE Sales Ledger illustration is self-explanatory. It shows you the extra profits that go into your cash drawers through buying 'ASPRO' on bonus terms. It proves that it is worth while planning ahead 'ASPRO' purchases of 10's and 27's to receive the extra concessions, even at the expense of buying supplies in anticipation of demand. Bonus Buying is made easier by continuous 'ASPRO' displays in your windows and on your counters, etc. They are the connecting link of our enormous newspaper advertising appropriation to create demand with your own store to provide the supply.

'Aspro' Window Displays help you to obtain 17% Extra Profit Through Buying on Bonus Terms

Centre Window Displays



To buy Unstamped 'ASPRO' on Bonus terms means approximately 17 per cent. additional profit, and every chemist will realise the great advantage of buying on Bonus Terms, and receive the additional 17 per cent. on all 'ASPRO' sales. THIS BONUS IS FOR CHEMISTS ONLY.

WHAT THE BONUS IS. Window Show Bonus available on Unstamped 'ASPRO.' The bonus on one gross order for 10's is one dozen packets; on a half-gross order, half-dozen packets. Half-a-gross is the minimum order accepted for bonus purposes. The bonus on one gross

order for 27's is two dozen packets; on half-gross order, one dozen packets; on a quarter-gross order, half-dozen packets. Quarter gross is the minimum quantity accepted on 27's for bonus purposes. There is no bonus on 5's or 60's.

THE BONUS CONDITIONS ARE:

That the chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the chemist's shop to purchase 'ASPRO,' but should enable the chemist's staff to make sales of other lines as well.

Acceptance of bonus is considered acceptance of conditions regarding display and selling prices. To qualify for the bonus it is not necessary for the chemist to buy both sizes at the same time, but single lots may be ordered—viz.: 6 dozen 10's or 3 dozen 27's.

HOW TO ORDER BONUS PARCELS.

We do not sell direct to the chemist. All our business is through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the bonus will be supplied direct by us.

Prices of Unstamped 'ASPRO.'
3d. size, containing 5 tablets, 2/3 doz.
6d. ,, containing 10 tablets, 4/6 ,,
1/3 ,, containing 27 tablets, 11/6 ,,
2/6 ,, containing 60 tablets, 21/- ,,
Less 2½% 30 days.

NOTE.—The 2s. 6d. size contains 10 extra tablets, and the 1s. 3d. size 2 extra tablets.

'ASPRO' consists of the purest Acetyl-Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority. No proprietary right is claimed in the method of manufacture or the formula.

'ASPRO' WINDOW STICKERS

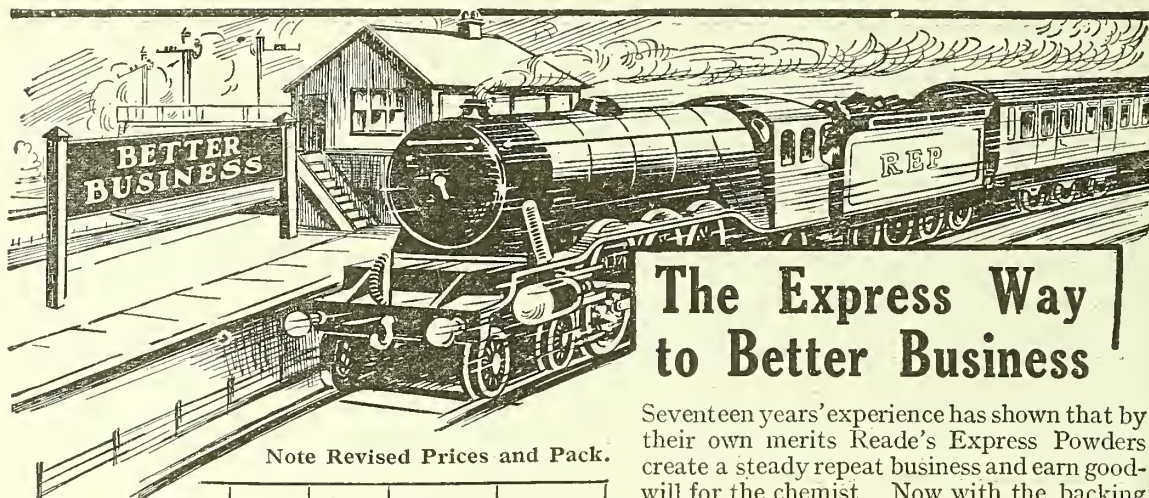


Made by ASPRO LIMITED, SLOUGH, England.

Agents: GOLLIN & CO. PTY. LTD. ('Aspro' Dept.),
SLOUGH, BUCKS.

Phone: Slough 603.





The Express Way to Better Business

Seventeen years' experience has shown that by their own merits Reade's Express Powders create a steady repeat business and earn goodwill for the chemist. Now with the backing of sound consistent advertising they are rapidly becoming the most popular specific for **HEADACHE, INFLUENZA, CHILLS, FEVERISHNESS, NEURALGIA, RHEUMATISM and NEURITIS.**

Note Revised Prices and Pack.

Sizes	1/3 box	3/- box containing 22 powders	Box for opening containing 45 Powders at 2d. each 5/- each	Box for opening containing 110 powders at 2d. each 12/- each
Prices	11/6 per doz.	30/- per doz.	2/6 each	6/4 each
Profit - Yielded	3/6 per doz.	6/- per doz.		

Special Prices upon application for £5, £10, and £25 Parcels.

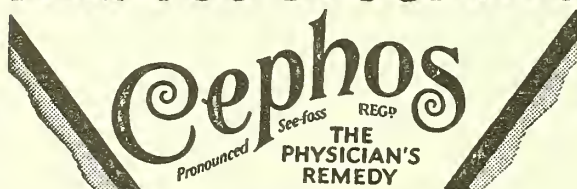
London Distributors: MAY, ROBERTS & CO., LTD., 7-13, Clerkenwell Road, E.C.1. SANGER & SONS, 42a, Hampstead Road, N.W.1.

READE'S EXPRESS POWDERS

Made by READE BROTHERS & CO., LTD., WOLVERHAMPTON.

(Established 1773)

ARE YOU STOCKING



FOR
**INFLUENZA · RHEUMATISM
NEURALGIA · NEURITIS
LUMBAGO · SCIATICA**

Handsome Profits assured. Order your supplies now.
Retail at 1/3 and 3/- in powder or tablets.
Write to Cephos Ltd., Blackburn.

INTENSIVE ADVERTISING

**BACKED BY
THOUSANDS
OF VALUABLE
TESTIMONIALS**

CONTAINS NO HARMFUL DRUGS

The Triumph of



BRAND
OINTMENT

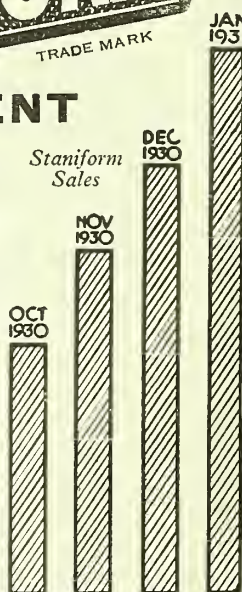
As witnessed by
increased sales.

The public call for this wonderful healing agent is daily increasing, with the result that every month sees the sales of Staniform Ointment and Lotion mount higher and higher. Doctors, Hospitals, Nurses and Public claim it as the **GREATEST HEALER** for Burns, Wounds, Chilblains, Eczema, and ALL SKIN AILMENTS.

Stand No. B.82, B.I.F., Olympia

Staniform is obtainable from your usual wholesale house on P.A.T.A. terms. Write for attractive show-cards and free literature to

STANIFORM, LTD.
CARNWATH ROAD, LONDON, S.W.6



THE BEST SELLING WINTER REMEDY

VENO'S *Lightning* COUGH CURE

**BIG PRESS CAMPAIGN CONTINUOUS
TO MAY 1931**

**BIG POSTER CAMPAIGN CONTINUOUS
TO MAY 1931**

**HOUSE - TO - HOUSE DISTRIBUTIONS
CONTINUOUS TO MAY 1931**

**SEE THAT YOUR STOCKS ARE ALWAYS
BIG ENOUGH TO MEET EVERY DEMAND**

**ORDER THROUGH YOUR WHOLESALE OR DIRECT FROM THE
BEECHAM-VENO CENTRAL DISTRIBUTING DEPOT, CHESTER ROAD,
MANCHESTER.**

LAKEROL

BRAND
BRONCHIAL PASTILLES

SALES ON THE UP-GRADE ALWAYS!

Since Lakerol was first marketed the sales chart is a record of unbroken advance. Cater for the public demand—stock the pastilles they know, like and ask for—Lakerol.

TRADE TERMS FOR BONUS PARCELS

1/3 Tins.

Window Display Parcel No. 1 contains 3 dozen tins and a bonus of 6 tins. Invoiced at £1-10-0—Sells at £2-12-6.

7½d. Pkts.

Window Display Parcel No. 1 contains 4 dozen packets and a bonus of 8 packets. Invoiced at £1 — Sells at £1-15-0.

Profit on each equal to 75% on cost.

Attractive Display Material and a liberal supply of sample packets accompany each parcel.

PASTILLES LIMITED,

124 HIGH STREET, SHOREDITCH, LONDON, E.1.

DRIED MILK

Large buyers of Full Cream, Half Cream, Separated, Milk Sugar, Whey Powder, Soluble Milk Casein, are invited to apply for samples and quotations, stating probable requirements. Eight Creameries in Dorset, Somerset and Wilts.

PRIDEAUX'S LTD., MOTCOMBE, SHAFTESBURY, DORSET

PHARMACEUTICAL PRINTING

When in need of LABELS, STATIONERY, LEAFLETS, or other advertising matter, consult those people who specialise for your needs. We have been printing for Chemists for 80 years and can supply you as others cannot.

Complete catalogues and Samples available upon request.

ELLAMS & CO., 33 HANOVER STREET, LIVERPOOL

TABLET COMPRESSORS & PACKERS TO THE TRADE

J. MAUD & CO., LTD.

Customers' own formula or material compressed from ½-gr. to 3½ oz.
OUR SPECIALITY—SERVICE TO THE TRADE
84/8 NEW NORTH ROAD, LONDON, N.1 Tele: Clerk. 4320

"SANS-GENE"

Described by the Medical Profession as the best Contraceptive on the market 5/- 42/- per dozen

"FORODOR"

The perfect corrective for local perspiration 1/6 12/- per dozen

"ELIZABETH MCINTYRE" Skin Cream.

An excellent cream for night use 2/6 20/- per dozen
PHARMACEUTICAL SUPPLIES LIMITED
120 VICTORIA STREET, LONDON, S.W.1 Tele: Victoria 9888

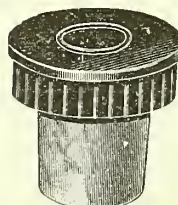
FOR THROAT AND CHEST



Vigorous Press Advertising
Excellent Assured Profits

F. W. HAMPSHIRE & CO. (1927), LIMITED, DERBY

STOPPERS



200 Varieties
Any Colour.

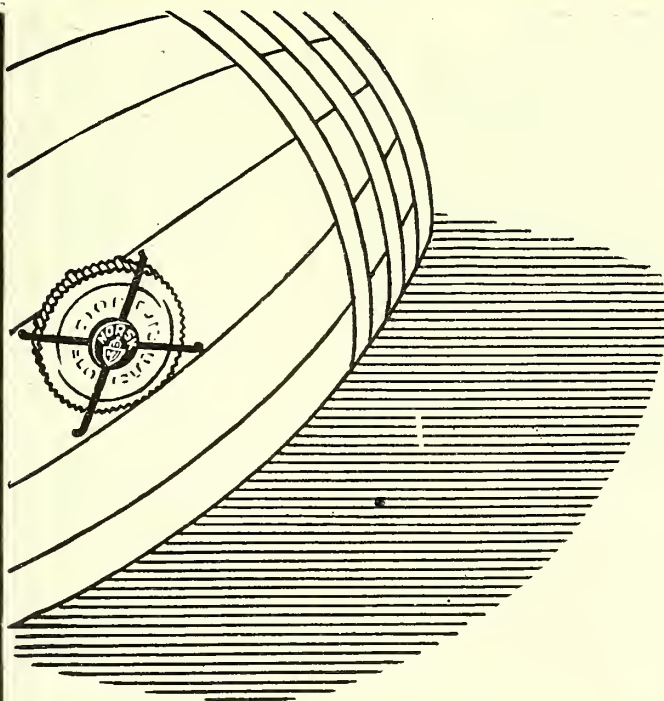
A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



T. WEBSTER & Co., Ltd.

Diamine House, Middle Lane, Hornsey, LONDON, N.8

Telephone: Mountview 0952

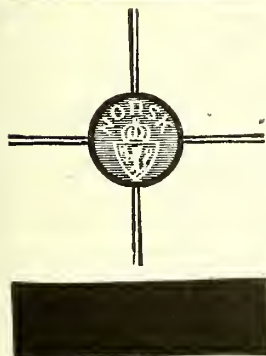


To all importers and buyers of Norwegian Medicinal Cod Liver Oil.

By Norwegian law all medicinal cod liver oil exported from Norway is subject to control by the Norwegian Government.

As proof of this control every barrel of pure Norwegian medicinal cod liver oil is sealed over the bunghole with a yellow Government seal.

The oil in barrels not so sealed is not genuine Norwegian medicinal cod liver oil.



NORWEGIAN COD LIVER OIL

National Committee for Promoting the Consumption of
Norwegian Cod Liver Oil, Post Box 226, Bergen, Norway.

(((Sea))) VITOIDS

GREAT NATIONAL CAMPAIGN

PUBLIC imagination and confidence has been captured by Sea-VITOIDS—"The Magic Tonic." Not only does every bottle of Sea-VITOIDS carry a £5,000 "no relief—no pay" Guarantee, but the Proprietors of this powerful Vitamin-Seaweed Tonic are so convinced of the substantiation of their claims that they insure regular users of Sea-VITOIDS against doctors' bills.

This enterprising scheme is being advertised throughout the Kingdom, and demands co-operation from all Chemists and Druggists as it ensures regular customers. If you have not already received particulars, write at once to Sales Department as below.

46% Profit!

In connection with this great scheme of insurance against doctors' bills, the following special bonus terms are offered to all Chemists and Druggists who agree to give a

14-DAY WINDOW DISPLAY

and note your profit.

	COST	SELLS
6 doz. 1/3 size @ 12/- ..	£3 12 0	£4 10 0
1 doz. 3/- size @ 28/10 ..	£1 8 10	£1 16 0
	£5 0 10	£6 6 0

BONUS

12 only 1/3 free ..	..	15 0
2 only 3/- free ..	..	6 0
	..	£5 0 10 £7 7 0

This profit of £2 6s. 2d. is equal to 46%.
Terms: 30 days nett.

CLOSEST CO-OPERATION

You can always be assured that no stone will be left unturned to make Sea-VITOIDS the phenomenal success they deserve to be, and earn for you absolutely unprecedented profit under the enterprising scheme outlined above.

Sales Department

IRVINGS Sea-VITOIDS LIMITED

Throgmorton House,
COPTHALL AVENUE, LONDON, E.C.2

Best sellers

The public is asking for **ZEAL** CLINICAL THERMOMETERS because they are:
GUARANTEED TO STAY ACCURATE
CONSISTENTLY ADVERTISED

Made by
ZEAL
—the name the public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to measure we maintain a 24 hour service.

:: BODY BELTS ::
TRUSSES :: SUNDRIES

Write for Catalogue.

SURGICAL HOSIERY CO., LTD.

Russell Street :: NOTTINGHAM

Telephone No.: 75903 Telegrams: SURGICAL, NOTTM

THIS SILENT SALESMAN IS FREE —



This striking and attractive Counter Display Cabinet (solidly made, with glass front) is a proved seller.

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(This is only given as a suggested order which embraces all lines shown in the Cabinet itself.)

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2 doz. Zinos (1 doz. Corn, 4 packets each Soft Corn, Callous and Bunion)	22/6	30/-	7/6
1/2 doz. Bunion Reducers (1 pair each size)	10/-	15/-	5/-
1 doz. Bath Salts	4/-	6/-	2/-
1 doz. Massage Cream	4/-	6/-	2/-
2 doz. Heel Snuggers (on card)	8/-	12/-	4/-
1/2 doz. Toe Rights	1/11	3/-	1/1
1/2 doz. Toe Flex	8/-	12/-	4/-
1 doz. Foot Powder	4/-	6/-	2/-
2 doz. Tarsos (1 doz. Corn, 1/2 doz. each Callous and Bunion)	8/-	12/-	4/-

£3 : 10 : 5 £5 : 2 : 0 £1 : 11 : 7

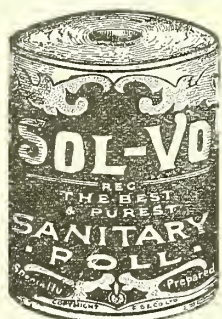
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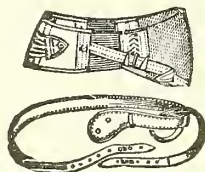
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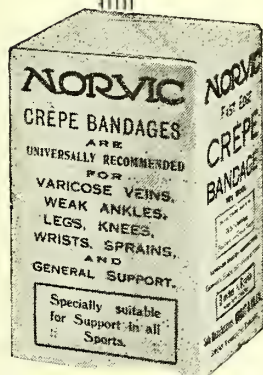
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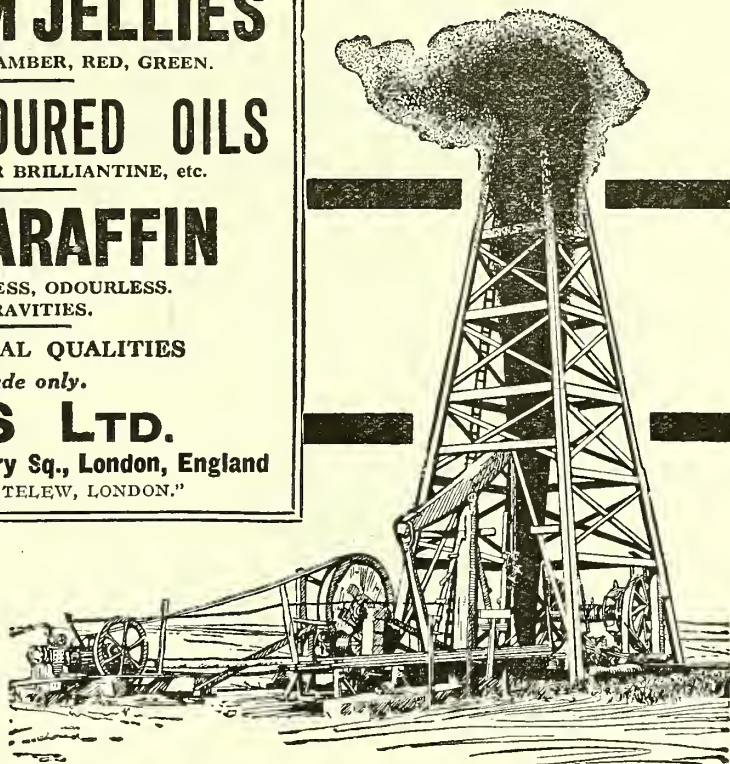
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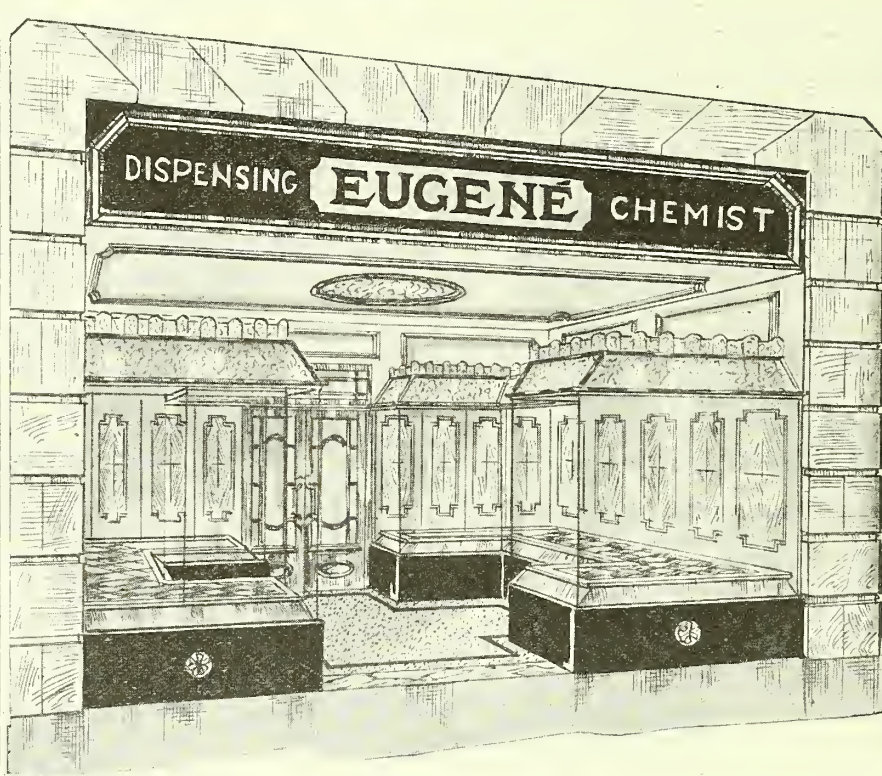


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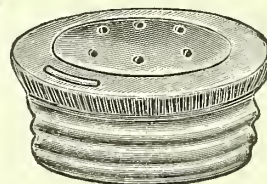
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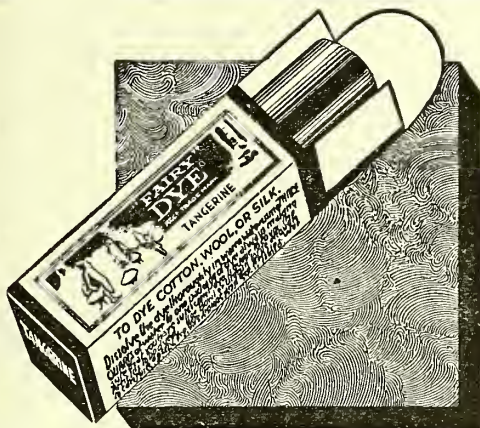
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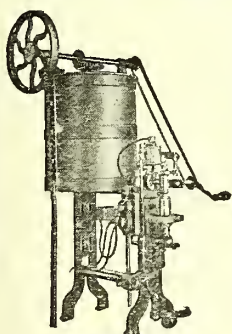
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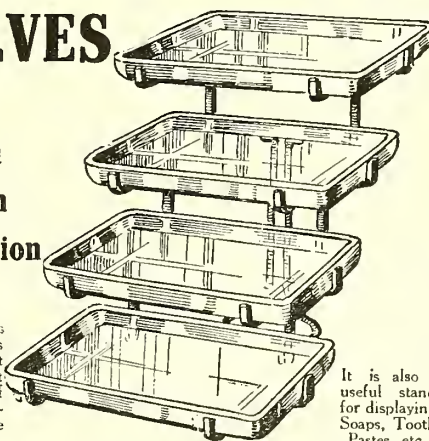
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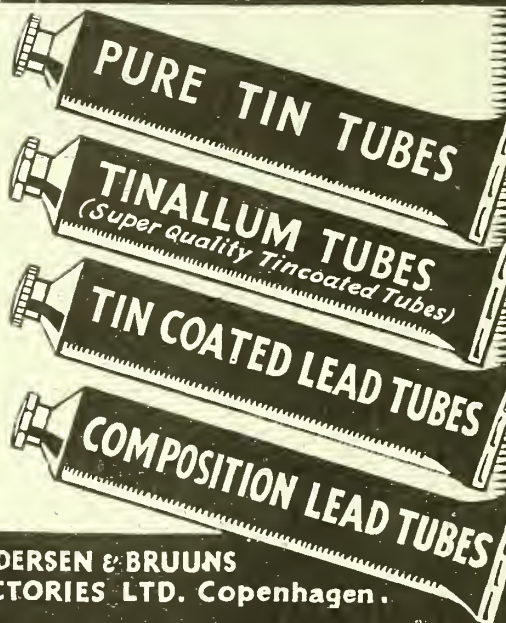
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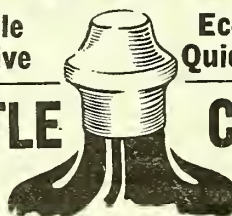
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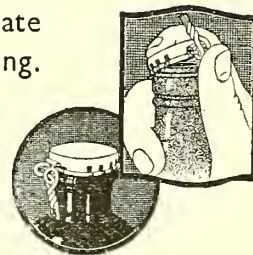
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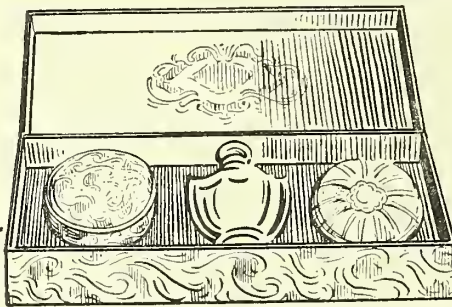
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THE CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX ST.
LONDON, W.C.2

FEBRUARY 21, 1931

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3.—CITY (Near).—Good-class Business, with Kodak Agency; no N.H.I. Dispensing; turnover last year £1,884; gross profit about 40 per cent.; double-fronted shop, handsomely fitted and fully stocked; accommodation comprises six rooms and bathroom, cellar; rent £225; sub-let £150 per annum; long lease; price £1,400, or offer; part payment entertained.

4.—MIDDLESEX (New District).—Cash Retail and Dispensing Business; returns £2,400 per annum; gross profit 40 per cent.; double-fronted shop, well fitted and stocked; vendor estimates value of stock and fixtures at £1,000; rent £275 per annum; sub-let £2 7s. 6d. per week; long lease; price £1,500.

5.—SURREY (Few Miles Out).—Cash Drug Store, with own D. & P.; returns £20 per week, increasing; lady manageress; double-fronted corner shop, fairly fitted and stocked; accommodation comprises four rooms, kitchen and bathroom; room for garage; rent £1 17s. 6d. per week; new lease would be granted; price about £400.

6.—LONDON, EAST.—General Retail and Dispensing Business, with Kodak Agency and N.H.I. Dispensing; established 68 years; returns last year £4,500; accountant's figures; large double-fronted shop, very well fitted and fully stocked; nice flat over; rent £180; lease has 18 years unexpired; price £3,000, or near offer.

7.—NORWOOD.—Cash Retail and Dispensing Business, with Photographic; returns last year approximately £1,750; gross profit 35 per cent.; double-fronted modern shop with room

over; rent £125; lease has 18 years unexpired; price £950 for quick sale.

8.—EASTERN COUNTY (Death Vacancy).—Cash Retail and Dispensing Business, with N.H.I. and Kodak Agency; established 100 years; returns approximate £2,500 per annum; double-fronted shop; house over contains five rooms; side entrance; rent £150; new lease; price £700, plus stock and fixtures at valuation.

9.—LIVERPOOL.—Branch Business for Disposal; Kodak Agency; returns £2,500 per annum; good profits; double-fronted shop; estimated value of stock and fixtures £1,350; very good living accommodation; new lease would be granted, or property may be purchased; valuation terms entertained.

10.—PLYMOUTH.—Good-class Family Retail and Dispensing Business; turnover last year £1,750, increasing, this year should be £2,000; shop situate at best residential end of city; stock worth £350; rent £65; held on lease; price £900.

11.—LINCOLNSHIRE (Large Town).—General Retail and Dispensing Business, with Kodak Agency; established 100 years; returns approximately £2,600 per annum; net profit between £600 and £700; vendor estimates stock and fixtures to be worth £1,100 to £1,200; very large house; rent £150, rising to £175; long lease; price £1,700, or valuation terms entertained.

12.—CORNWALL.—General Retail and Dispensing Business, with Kodak Agency; returns £2,100 per annum, under management; net profit £500; stock and fixtures estimated to be worth £1,150; rent £60 per annum; held on lease; price £1,400.

13.—ESSEX.—Country Drug Store, with Kodak Agency; returns last year £738; scope; no opposition; good house, with garage; rent £24 per annum; rates £11; price about £400.

14.—SUSSEX COAST.—General Retail and Dispensing Business; returns approximately £1,500 per annum; stock estimated to be worth £750; rent £104 per annum; no rates; new lease; price £1,000.

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Correspondence is invited from prospective purchasers relative to the following businesses for disposal, initial particulars of which are as follows:

(1) **YORKSHIRE (BUSY TOWN).**—Good family business doing over £1,000 per annum, of which income from N.H.I. dispensing is nearly £200; rent, 13s. per week inclusive; stock and fixtures recently valued, £420; purchase price £550; reason for disposing, owner must go South at once.

(2) **BIRMINGHAM.**—Average returns, £1,750; net profits, £400; N.H.I. (550 scripts monthly); rent £50 on lease; living accommodation.

(3) **BIRMINGHAM.**—Lock-up shop, rent £41; average turnover, £1,600; net profits, £325.

(4) **LONDON, N.W.**—Turnover, £1,000; N.H.I.; living accommodation at present sub-let; net profits, £400; total expenses only 14s. weekly; scope for increase, and opening for optics.

(5) **DERBYSHIRE (POPULAR DISTRICT).**—Pharmacy (lock-up) undeveloped; net profits, £200; inclusive rental, £38; purchase price, £550.

(6) **GLOUCESTER.**—Turnover, £1,550; net profits, £530; living accommodation; rent, £64; purchase price, £925.

(7) **MIDDLESEX.**—Average returns, £1,750; good living accommodation; rent, £50; good opening for optics.

(8) **LONDON, EAST.**—Pharmacy with exceptional possibilities; good living accommodation; purchase price, fixtures £100; stock at valuation; sudden health disability, reason for disposing.

(9) **LONDON, EAST.**—Turnover, £1,800; net profits, £500; living accommodation available; purchase price, £900.

(10) **SOUTHAMPTON.**—Average turnover, £1,700; net profits, £400; N.H.I. (300 scripts monthly); rent, £90; good living accommodation; purchase price, £1,100 or near offer.

(11) **YORKSHIRE TOWN.**—Old-established pharmacy, centrally situated in commanding position, available for disposal together with property; average returns for past three years approximately £1,900 per annum; good percentage profits; owner must move for health reasons.

(12) **CHESHIRE.**—Unopposed pharmacy doing about £18 weekly; well situated; net profits, £250 per annum; N.H.I. (average approximately 5,000 scripts yearly); rent, £45 10s., or property may be acquired; good living accommodation; purchase price, £450.

(13) **KENT.**—Turnover, £1,200; total expenses (including rent) less than £2 10s. weekly; situated in growing residential district; excellent scope for increase; reasonable purchase price for quick sale.

(14) **BRIGHTON.**—Business doing £27 weekly under unqualified management; net profits, £300; excellent scope.

(15) **LEEDS.**—Turnover, £1,220; rent, £45; N.H.I. (600 scripts monthly), excellent scope for increase; living accommodation available.

(16) **LANCASHIRE (NEAR MANCHESTER).**—Lock-up shop, unopposed; turnover, £1,220; net profits, £300; N.H.I. (450 scripts monthly); purchase price, £675.

(17) **BLACKPOOL.**—Prominently situated pharmacy for disposal, owing to sudden health disability; quick counter trade; purchase price, £950, representing less than present value of stock and fixtures; turnover, £2,100; rent, £90 per annum on lease.

(18) **SHROPSHIRE TOWN.**—Good class retail business doing over £45 weekly, and increasing; net rental, £115; net profits approximately £550; disposal on valuation basis, plus goodwill.

(19) **EAST COAST.**—High-class retail and dispensing business, with an approximate annual turnover of £3,700; high percentage profits; full particulars to bona fide applicants.

(20) **PROVINCES.**—Two high-class pharmacies showing average returns of approximately £10,000 and £3,000 respectively; details will be divulged only to genuinely interested pharmacists, who have the necessary capital at their command.

(21) **MEDITERRANEAN PORT.**—Correspondence is invited from pharmacists interested in an English Pharmacy, returning between £5,000 and £6,000 per annum, and showing net profits (free of tax) of approximately £1,450. The business is available owing to the contemplated retirement of the present owner.

(22) **KENT (SEASIDE RESORT).**—Turnover, £2,200; net profits, £500; for sale owing to illness of proprietor.

(23) **LIVERPOOL.**—Returns exceed £2,300; rental, £100 on long lease; good living accommodation.

(24) **NORFOLK.**—Good class family business showing certified returns upwards of £2,000 per annum; net profits approximately £450; good living accommodation; rent, £100 on long lease; purchase price £1,750, including stock and fixtures; owner retiring.

(25) **LONDON (WEST).**—Turnover, £2,500; net profits, £800, rental, £135, less sub-lets £117; heavily stocked (value about £2,000) but the owner is prepared to accept an all-in purchase figure of £2,500 including fixtures, which are of solid mahogany; reason for disposal owing to contemplated retirement.

(26) **MANCHESTER.**—Returns, £1,900; rent, £80; living accommodation available.

(27) **DERBYSHIRE.**—Turnover, £2,000; rent, £65; living accommodation.

(28) **LANCASHIRE.**—Drug Store (lock-up) with excellent prospects under qualified management; present net profits, £4 weekly; rent, £25; purchase price, £300.

(29) **READING.**—Turnover, approximately £2,000; rent, £71; living accommodation.

(30) **SEASIDE RESORT (YORKSHIRE).**—Drug Store; returns, £1,150; living accommodation; excellent prospects.

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1.—**SOUTH COAST.**—Good-class Cash Business, in splendid position; returns £3,100, under management; plenty of scope; good profits; handsome modern pharmacy; rent £250; sublet £110; price £1,750, plus stock at valuation.

2.—**NORFOLK (Death Vacancy).**—Light Cash Retail Dispensing and Photographic Business, in same hands many years; turnover £2,500; gross profits 40 per cent.; scope for increase; stock and fixtures worth over £1,000; price £700, plus valuation of stock and fixtures.

3.—**CHANNEL ISLANDS.**—Sound light Family, Retail and Dispensing Business; in present hands 36 years; returns £1,264; net profit £351; own property; lease arranged; stock and fixtures worth £600; price £900; owner retiring.

4.—**CAMBS.**—Mixed Country Retail; no heavy trade; returns, under manager, £1,400; good house and garden; roomy shop, well situated; price valuation terms about £700; freehold can be purchased.

5.—**LANCS.**—Sound light Cash Retail, in busy main road; returns last year £1,270; net profit over £400; present hands 11 years; good shop with house; own property; lease granted; stock and fixtures worth over £600; price £725.

6.—**YORKS (Market Town).**—Good-class Retail, with Kodak Agency, in prominent corner position; returns over £1,400, under manager; plenty of scope; price £900, or valuation terms arranged.

7.—**CRYSTAL PALACE DISTRICT.**—Good middle-class Cash Business, in main road position; returns £1,750; books properly kept; modern double-fronted shop; well fitted and stocked; price £950; personally inspected and recommended.

8.—**LONDON (Essex Suburb).**—Death vacancy; light Cash Retail, under manager; present returns over £24 weekly, plus N.H.I.; low rent; on lease; nicely-fitted shop and fairly well stocked; price £650.

9.—**LONDON, S.E.**—Profitable middle-class Cash Retail; practically unopposed; returns over £1,000; rent only 15s. weekly clear; on lease; nicely-fitted shop; good stock; price £550 or offer.

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BUSINESSES FOR DISPOSAL.

1.—**LINCS. DISTRICT.**—Chemist Business, situate Market Place; quarterly tenancy; low rental; returns have reached £30 per week; now average £10; good reason for disposal; double-fronted lock-up shop; no opposition; price, approximately £500. Further particulars on application.

2.—**LONDON, N.7.**—Old-established Optical Business, combining recently established Pharmacy, held on lease with 14 years to run at a rental of £250 p.a., of which £135 is let on lease; returns £28 per week; very large shop, dispensary and sight-testing room, situate in busy main road; no opposition for some distance. Further particulars on application. (42)

3.—**MANCHESTER.**—Old-established Retail Business for quick disposal; yearly tenancy; rent £150; returns for the last 40 years average over £50 weekly; at present returns are £35 weekly; nicely fitted and good stock; Wine and Spirit Licence; living accommodation. (48)

4.—**LONDON, S.E.**—Acid, Drug and Chemical Business for quick disposal; premises held on weekly tenancy at 14s. per week; returns average £25; stock and fixtures estimated at £500, offers invited. Full particulars on application.

5.—**KENT.**—Growing district; death vacancy; recently established Retail Business for quick disposal; lease will be granted, 7, 14 or 21 years, at £78 per annum; rates low; returns £1,100, could be considerably increased; Dentist attends at surgery at side three days a week; large double-fronted shop and room at back; excellent opportunity for young qualified Chemist-Optician; price £925, or near offer. (51)

6.—**LINCS.**—Established Dispensing and Retail Business for quick disposal in important town; 17½ years' lease to run at £200 per annum; returns average £50 per week; very large shop, situate in main thoroughfare; specially recommended.

7.—**BIRMINGHAM.**—General Retail and Dispensing Business, situate in main busy road, for quick disposal; approximate returns £25 per week; double-fronted shop and seven-roomed house over; lease will be granted at £100 per annum; house above could be let at £78 per annum; price for lease, goodwill, fixtures and utensils £450; stock approximately £500. (49)

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BLACKPOOL (near, growing district).—Modern Pharmacy, with property, double-fronted, with company house (nine rooms); established 13 months; Kodak; returns approximately £700, increasing; qualified man needed for N.H.I., etc.; scope for Optics and Wireless; returns would double themselves in 12 months; must sell this month for family reasons and lack of capital to develop; price for fittings, etc., £300, stock valuation, property £1,850; quick transfer (value £2,500); mortgage obtainable; might consider renting; particulars only to genuine buyers able to interview at once. 96/25, Office of this Paper.

BOURNEMOUTH.—Large modern corner shop; 'bus stop; residential district; Dispensing and Kodak Agency; unopposed; lock-up, with Dispensing; good turnover; inclusive rent; low price for quick sale; freehold may also be purchased. 98/38, Office of this Paper.

BRIGHTON (main street).—Pharmacy; really sound; all cash trade; turnover £1,500 per annum; owner retiring; long lease; low rent. Wallace, Chartered Accountant, 58 West Street, Brighton.

BRIGHTON.—Excellent opportunity for Chemist to secure good Shop on Sea Front; only toilet requisites and photographic goods been sold (no other Chemist near); double-fronted shop; 12 years' lease; fitted with cases and National cash register; price £200; stock at valuation. Write "Chemist," 5 Aldington Avenue, Hove, Sussex.

DEWSBURY (near).—Chemist's Business, recently carried on by George Duncan, Ltd., for Sale, including stock and fixtures; living accommodation; immediate possession. Offers to J. S. Hanson, Liquidator, Chartered Accountant, 20 Bond Street, Dewsbury.

HARROGATE (Death Vacancy).—Old-established Drug Stores; nicely fitted and good, saleable stock; shop, with three stock-rooms; good-class suburb; low rent and rates; opening for N.H.I. and Photographic; returns were £20, decrease owing to indisposition of late owner; accept value of stock and fittings (about £600), less 25 per cent., or reasonable offer or part-payment. Marsden, Valuer, 29 Oakwell Crescent, Leeds. Phone: Roundhay 62390.

LONDON, N.—Cash Retail Business, with Kodak, N.H.I. and Prescribing; bold corner shop and house; main road; net profit over £400; lease to be sold; no agents. Apply P.C.B. 29/8, Office of this Paper.

LONDON, S.W.—Pharmacy, modern fittings; returns average £10 weekly; good-class locality; among multiple shops; long lease; nice house with side entrance; rent £75 per annum; part let 18s. weekly; splendid opportunity for qualified Chemist-Optician; price £475, or near offer. 97/22, Office of this Paper.

LONDON, S.W.—Good-class Retail and Dispensing; main road; well-fitted shop; returns, under manager, for 1930, £1,669, increasing; rent £150, rising to £175, includes five rooms, at present vacant, over shop; price £800. Apply 97/30, Office of this Paper.

MANCHESTER.—Chemist Business for sale; new shop; brand new fixtures; takings £17 per week; will easily do £25 within the next 12 months; good house attached; Kodak and Selo; price asked £700. Another Business now doing £25 per week; fully stocked; with good living accommodation; opened only 2 years ago; stock alone worth over £600; price asked £1,000; scope for Optics. 97/28, Office of this Paper.

READING.—Old-established Drug Stores; good living accommodation; low rent; long lease; net profits £350; excellent modern stock; wonderful scope for N.H.I. work; turnover even last year: showed increase; great opportunity for young, qualified Chemist; all at £650. Bona-fide applicants apply 95/28, Office of this Paper.

SOUTH WALES PORT.—Established 58 years; returns, S. audited last year, £1,016; scope for increase; price £400; little over cost stock and fixtures; premises, main road corner, large area, with garage let off £26 per annum; leasehold property, 25 years to run; sell at valuation. Apply 95/10, Office of this Paper.

YORKS (West Riding).—Unopposed; returns, under manager, £2,400 per annum; Kodak Agency; N.H.I. 8,000 annually; low rental; price £1,850; principals only. 98/31, Office of this Paper.

BRANCH Shop, Rotherham district, showing good possibilities under management. Apply 182/484, Office of this Paper.

DRUG Store, S.E.; excellent position; corner shop, facing station; returns £1,100; purchaser will have to buy freehold property; good living accommodation; part premises can be let off. 96/30, Office of this Paper.

FIRST opportunity given to the right man to come in possession of a good Pharmacy, nicely fitted and well stocked, in the West of London; good reason for disposing; we will reply only to *bona-fide* buyers and chartered accountant's figures supplied. Inquire P.C.B. 30/5, Office of this Paper.

FOR Sale (or would Let at reasonable rent), Freehold Premises in main street, Devonport, together with stock, fixtures, etc., of Chemist established over 30 years; audited accounts. Write H. S. Robinson, F.B.I., 24 Bedford Street, Plymouth.

HIGH-CLASS Pharmacy for disposal; busy Surrey shopping town; main road; 1 minute station and large 'bus garage; Kodak Agency; under management; Dispensing could be added; well fitted and stocked. 96/36, Office of this Paper.

LOCK-UP Shop, two windows. Neglected Chemist's Business for disposal in country village; no opposition; N.H.I. and Poor Law Dispensing attached; rent 11s. clear; low valuation; owner not a chemist. Apply H. Shaw, Woodhouse Mill, near Sheffield.

MODERN Business, Kent Coast, for Sale, together with double-fronted corner premises, mortgage on which can be taken over; returns average £2,100; price £1,350 for business and £750 equity of mortgage; let off £60. "X. Y. Z." 90/32, Office of this Paper.

NEGLECTED Business for Disposal; established eight years; situated in large village; unopposed; rent 30s. weekly and rates (low) for house and large shop; beautifully fitted; stock at valuation. B. G. Hayes, Chemist, Rainworth, Mansfield.

£200 CASH and £200 by arrangement will buy a splendidly equipped Business in a select town near London; good prospects. 182/485, Office of this Paper.

£250, OR near offer, for genuine Cash Business, recently opened, and returns already £10 weekly, increasing, with good N.H.I. connection, situated in the busiest part of Romford Road; commanding corner position; lock-up; moderate rental; N.H.I. cheque pays rent; suit young qualified; owner on South Coast. Apply "Genuine," 96/2, Office of this Paper.

BUSINESSES WANTED.

ELDERLY Chemist requires small Business returning say £600 to £850, within 30 miles' radius of Birmingham; living accommodation necessary; Drug Store, mixed business, or premises capable of conversion into same would be appreciated; prompt cash and settlement. 95/38, Office of this Paper.

PHARMACIST seeks useful business, easily managed, in Suffolk or near parts of Essex. Kindly give full confidential particulars of turnover, stock, profits, rent, etc., and cash offer, to 96/100, Office of this Paper.

PPRIVATE Chemist will pay 3 years' net profit, plus stock and fixtures, for substantial business in London (minimum turnover £4,500); cash waiting. Apply "Statim," 95/21, Office of this Paper.

TURNOVER, about £10 to £15 weekly, Village Pharmacy; net profit at least £200 (authenticated); Kent or Sussex; surroundings and house must be good; neglected one if prospects are favourable not objected to. "Chemicus," Norfolk Hotel, Marine Parade, Hastings.

PREMISES FOR SALE.

BANSTEAD, SURREY.—Chemist and Druggist badly needed in new parade of high-class shops in rapidly growing district; large estates being developed; houses selling freely; only three left in first block; prices £1,850 and £2,000, freehold; mortgages arranged. Write Chas. Lewin, No. 2 Oak Timbers, High Street, Banstead. Phone: Burgh Heath 1028.

GLOUCESTER.—Valuable Freehold Premises for Sale; low reserve to close estate; corner position; double frontage, 46 ft. to main thoroughfare; recently occupied as offices; good living accommodation; populous district; excellent opportunity for Chemist. Apply 96/6, Office of this Paper.

PREMISES WANTED.

PREMISES wanted immediately: Shop, medium size, with good living accommodation (Sussex or Hampshire preferred); inland or seaside; growing district; would consider purchasing established Optical or Chemist Business. Full particulars in first letter to "M.P.S.," "Templeton," Bridge Road, Torquay.

FINANCIAL.

WHOLESALE Chemist desires to purchase sound Proprietary or Patent Medicine to manufacture and distribute from own factory. Full particulars of turnover and profits (in confidence) to 96/10, Office of this Paper.

PARTNERSHIP.

LONDON (South-West end).—Chemist, with high-class clientele (turnover £2,000-£3,000), invites offers of co-operation with view to expansion from anyone with the necessary capital and energy who is seeking an opening this part of London, or would entertain any reasonable offer of purchase. Apply for interview to 97/38, Office of this Paper.

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6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BIRMINGHAM.—Manager, qualified, must be keen, smart appearance, good Salesman and Window-dresser, for up-to-date business; salary and commission. Full details of age, experience, salary required, and when at liberty to 96/300, Office of this Paper.

BRIGHTON.—Wanted, early in March, qualified Assistant with good South Coast or London experience; good references essential. Applications not answered in one week respectfully declined. State age, salary, and full particulars. Watts & Co. (E. Beckwith, M.P.S.), 45 Dyke Road, Brighton.

KENT (about 31 miles from London).—Qualified Manager for small Company; outdoors; must be honest, sober and capable; state lowest wage to commence; anyone with capital; salary and share of profits; excellent opportunity for right man. Apply 97/18, Office of this Paper.

LANCASHIRE.—Qualified man for modern Family business in centre of residential town; must be keen Salesman and good Window-dresser; good prospects for keen man to make progress; salary and commission. Full details, age, experience, salary, and when free to 96/5, Office of this Paper.

LONDON, W.—Qualified Manager required, with good knowledge of English and Continental Pharmacy; must be able to speak French; good prospects for the right man. Apply, stating age, experience, salary required, references, 182/480, Office of this Paper.

LONDON, N.W.1.—Locum wanted for 4 weeks from February 23; gentleman with good Dispensing and Counter experience. 98/8, Office of this Paper.

LONDON, N.W.10.—Lady Assistant, unqualified, with good all-round experience, principally required for Counter and Window-dressing. Give full particulars of experience, age, salary, and when disengaged to 98/20, Office of this Paper.

MANCHESTER.—Young qualified Assistant wanted for middle-class trade; N.H.I. and Photographic experience essential; outdoors. Give full particulars in first letter, 96/40, Office of this Paper.

ROYAL BERKSHIRE HOSPITAL, READING.—Wanted, Assistant Pharmacist. Applications, stating age, experience, and salary required, to F. A. Lyon, Secretary.

SHEFFIELD PHARMACIES, LTD., will shortly have a vacancy for a qualified Manager; either sex; busy N.H.I. and quick Counter trade in middle-class district; salary and commission basis. Full particulars in first letter to Registered Office, 882 Grimsthorpe Road, Sheffield.

SOUTHALL, MIDDLESEX.—Chemist requires young lady Assistant, with knowledge of general shop work, Window-dressing, etc. State age, height, experience, and salary required. 96/29, Office of this Paper.

SOUTH COAST (near Brighton).—Assistant, M.P.S., lady preferred, for busy mixed business; moderate hours. Salary and full particulars to 98/15, Office of this Paper.

WARWICKSHIRE.—Wanted, immediately, qualified lady Assistant. Apply, stating age, experience, and salary required, and enclose photograph. A good post offered in congenial surroundings to suitable applicant. 96/15, Office of this Paper.

FULLY qualified Chemist, experienced and capable of taking complete charge of branch business. State fullest particulars and salary required. 95/31, Office of this Paper.

LADY Assistant wanted; unqualified; Dispensing and Front Counter. Savage, 15 Queen's Road, Bournemouth.

LADY Assistant required; general experience. Apply, with usual particulars and when disengaged, to Morrell & Dixon, 443 Downham Way, Downham, Bromley, Kent.

MALE Assistant (25-30), with Minor qualification, well up in all branches, wanted for working-class Retail. The Prosser Roberts Co., Chemists, 85 Lambeth Walk, S.E.

PART-TIME, qualified Assistant wanted one or two evenings weekly and alternate Sundays. Breakspear, 112 Craven Park Road, Harlesden, N.W.10.

QUALIFIED Assistant required; young; state experience and salary; must be good Salesman. Apply Arnold & Sons, 2 King's Road, Southsea, Hants.

QUALIFIED Manager required for Branch; preference given to young married man; salary and commission offered; house provided. State full particulars, age, height, experience, etc. Applications not answered in four days respectfully declined. H. J. Bromhall, 10 King Street, Thefford, Norfolk.

QUALIFIED Assistant required for good-class business in Surrey. Apply, with full particulars of experience, etc., stating salary required (outdoors), to 97/26, Office of this Paper.

REQUIRED shortly, male Dispenser, married, for busy Surgery in S.E. London; applicants must be quick and accurate Dispensers and possess a good general knowledge of surgery routine. Reply, giving full particulars of experience, age, and salary required, 95/29, Office of this Paper.

UNQUALIFIED Assistant, age about 25 years, required at once; must be a quick and reliable Dispenser and able to take charge. Give full particulars of experience, height, etc., and enclose photograph. Letters not answered in three days respectfully declined. Morgan, 75 Woodbridge Road, Guildford.

WANTED, a qualified Assistant, temporary, with view to permanency, with a good knowledge of Photography; medium class business. Apply, by letter, stating full particulars as to salary required, and when disengaged, A. Joillet, Chemist, 162 Thatto Heath Road, St. Helens.

WANTED, competent Assistant, accustomed to high-class Dispensing and Retail business, with Photographics; intimate knowledge of all Cinematograph Apparatus, projecting, etc., essential; permanency if suitable. State full details of previous experience, age, height, salary required and when disengaged, to J. Boulton, Chemist, 25 Guildhall Street, Folkestone.

YOUNG lady Assistant required, chiefly as Dispenser, but must be used to Counter work. Give age, salary, and a copy of recent reference, to "Family Business, North London," 95/25, Office of this Paper.

WHOLESALE.

ACTIVE Salesmen, calling on Chemists and Stores in London, Midlands, Northern and Home Counties, for proprietary Toilet Preparations, Cologne, Lavender, etc.; part expenses and liberal commission to men of proved ability. P.C.B. 29/34, Office of this Paper.

CAN YOU SELL?—If you can make sales we can guarantee you regular repeats with our well-known best sellers, which are proved to be the best repeating lines in the trade; two well-established grounds now vacant; permanent positions and excellent support to men who can get orders, not promises. Details of your previous experience and terms wanted, territory, etc., to The County Perfumery Company, Bradford Street, Birmingham.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

FIRST-CLASS Representatives required immediately, all areas United Kingdom, for marketing old-established proprietary; liberal commission to energetic salesmen. Apply 182/481, Office of this Paper.

LEDGER Clerk required by an old-established firm of Chemical Manufacturers. Apply, by letter, stating experience, age, and salary required, to Austins, Ltd., 196/202 Bermondsey Street, London, S.E.1.

MANUFACTURING Chemists require Travellers for Scotland, Cumberland and Westmorland, Northumberland and Durham, Yorkshire, Southern Counties for new Medical and Toilet Proprietaries; commission only to commence. State age, territory, other lines carried (if any), and nature and extent of connection. Pharmaceutical Supplies, Ltd., 120 Victoria Street, London, S.W.1.

REPRESENTATIVE wanted by well-known Druggists' Sundries firm; must have live connection amongst Chemists and Hairdressers in Hants, Berks, Isle of Wight and Dorset; wonderful opportunity with good income for right man; applicants must reside in district and furnish two references. P.C.B. 28/32, Office of this Paper.

REPRESENTATIVES required to call on Chemists, Stores and Ladies' Hairdressers for Midland, North-Eastern and Southern England, to carry well-known nationally advertised Toilet Articles; preference given to men with ears; remuneration will be by commission only in the first instance. Write (in confidence), giving full particulars of ground covered and nature of goods carried, to 182/482, Office of this Paper.

REQUIRED by well-established firm of Perfumery Manufacturers, live Representatives in London, calling on Retail and Wholesale Chemists, Stores, high-class Hairdressers, etc., to sell middle-priced Perfumery and Toilet Preparations; commence duties beginning of March; only men with first-class connection and able to pass fidelity bond need apply. Send full information, with references, to 182/479, Office of this Paper.

SALESMEN required immediately, good class, with sound connection amongst Chemists and Hairdressers, for sale all kinds Razor Blades; good references essential. Write only, giving particulars, proof of ability, John Newton & Sons, 35 Hazlit House, Southampton Buildings, Holborn.

TABLET and Pill Maker, as second in charge, wanted; must have had good experience; suit young man with ambitions; preference for one with experience of making pills on tablet machines. Full particulars, experience, age, etc., to Brook, Parker & Co., Ltd., Bradford.

WANTED, Traveller, London district, for high-class Toilet article; must have experience of the trade and good connections. 182/477, Office of this Paper.

WEEK-KURA, LTD., Knaresborough, require additional Representatives in all parts. Call or write Stand B.61, British Industries Fair, Olympia, London, W.14.

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YOUNG Greek Pharmacist, preferably qualified, to act as Medical Representative for high-class products. 182/478, Office of this Paper.

SITUATIONS WANTED.

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A.A.A.—**QUALIFIED** Manager, 33, excellent West-End experience, requires permanency, City, West End and suburbs; immediately available; sound references. 98/17, Office of this Paper.

A.A.—**MISS GRACE RENNIE**, Pharmacist, now booking Locums; 20 years' Hospital, M.A.B., General; highest credentials. "Craig-y-Don," Marina, St. Leonards-on-Sea.

A.A.—**ASSISTANT**; unqualified; 26; 9 years' good-class experience, town and country; free one week; London preferred. 97/1, Office of this Paper.

A.A.—**ASSISTANT**; 24; high-class experience; reliable Dispenser, Counter-hand, Window-dresser. 98/7, Office of this Paper.

A.—**LOCUM**; qualified; registered R.P.U.; long or short period; experienced all branches; active; excellent references; terms moderate. "S. C. J.," 54 Priory Road, West Hampstead, N.W.6. Phone: Maida Vale 8212.

A—THOROUGHLY competent Assistant; unqualified; accustomed to quick Counter trade, N.H.I. Dispensing; capable of taking charge; best references; elderly; active; energetic; disengaged. Fairweather, 286 Kingsland Road, E.8.

A. E. TAYLOR is a capable Dispenser, good at Counter, excellent Window-dresser, quite conversant with Photography, extracts from reference; unqualified; age 22; tall; interview any time. C/o A. Yeates & Sons, Central Pharmacy, Stourbridge.

A CAPABLE young man; qualified; 26; West-End and London experience; well-experienced Dispenser, Counterman, knowledge of Toilets, Photographics, Window-dressing; some managerial experience; any responsibility; excellent references; disengaged. "Fernlea," Bryncethin, Glam.

A CAPABLE, qualified man desires change; Manager or Senior; Midlands preferred; age 25; married; good experience; excellent references. 95/39, Office of this Paper.

A KEEN, qualified lady desires post; wide experience with London (West End) and country Chemists; Dispensing and Counter; position of trust and responsibility welcomed. 97/9, Office of this Paper.

A QUALIFIED lady, with good experience and excellent references, desires situation. Please state salary offered. 97/24, Office of this Paper.

A QUALIFIED Chemist, experienced in all branches, offers services as Senior or Manager for progressive position; disengaged as required. "Chemist," 13 Barons Court Road, W.14.

A QUALIFIED Manager or Assistant; 24; Square trained; good all-round experience; excellent Window-dresser, Salesman, accurate Dispenser; first-class testimonial, "willing, energetic, conscientious worker"; managerial experience; tall; smart appearance. "Chemist," 99 Manor Road, N.16. Clissold 1756.

AN experienced, qualified Chemist, middle-age, energetic, desires engagement; Partnership or succession entertained; moderate salary; Birmingham area preferred; disengaged. 97/8, Office of this Paper.

AS Assistant or Locum; disengaged; experienced, town and country; excellent references; wide knowledge of Surgical Appliances; terms moderate. "H. G.," 142 Hill Lane, Southampton.

ASSISTANT, unqualified, age 20, disengaged, desires post; Bournemouth or Southampton preferred; Photography, Counter, Window-dressing experience; excellent reference; salary 35s. R. Drysdale, 105 Alma Road, Southampton, Hants.

ASSISTANT, 21, 6 ft., smart appearance, desires position; good all-round experience; reliable; trustworthy. H. Plummer, 20 Somerset Road, Walthamstow, E.17.

ASSISTANT, unqualified, 23, 6 years' experience, Counter, Dispensing, Photographic, Display, seeks situation immediately; Birmingham or Midlands preferred. 95/17, Office of this Paper.

ASSISTANT as Senior, relief or permanency; unqualified; 30; 6 ft.; single; abstainer; good all-round man; Dispensing, Counter, Window-dressing; recommended by present employer; free 1-2 weeks. 95/2, Office of this Paper.

ASSISTANT; unqualified; 25 years' varied experience, London, country and suburbs; trustworthy; reliable. "Chemicus," 69 Upper Richmond Road, Putney, S.W.

ASSISTANT; 26; single; disengaged; very good Dispensing, Counter and Photographic experience (six years in London); well recommended. G. Ramdin, 41 Westcroft Square, London, W.6.

ASSISTANT; unqualified; all-round experience; accurate Dispenser; can manage; temporary or permanent. "Aspirin," 72 Tremadoc Road, Clapham, S.W.4.

ASSISTANT, 34, unqualified, married, desires change; permanency; last berth 6 years; thoroughly experienced all branches; capable; reliable; take charge or Senior; well recommended. Johnson, 13 Lavant Street, Petersfield.

ASSISTANT; unqualified; 28; first-class experience; abstainer; good Prescriber, accurate Dispenser; tall; disengaged; excellent references; Home Counties preferred. "Alpha," Hillbery Gold Hill, Gerrards Cross, Bucks.

ASSISTANT (Junior), tall, studying Part I, 4 years' experience, one year London, seeks further Dispensing experience, shop or Hospital. 97/20, Office of this Paper.

ASSISTANT unqualified; male; 21; tall; good appearance; West-End experience; N.H.I., Photographic; now available. "C.," 44 Turneville Road, W.14.

BIRMINGHAM.—Part-time or Locum work wanted by qualified lady, M.P.S., used to Retail business. 96/17, Office of this Paper.

CAPABLE male Assistant; 23; unqualified; 3 years' West-End apprenticeship and all-round experience; passed Part I; London preferred, not essential. 95/8, Office of this Paper.

CHEMIST (lady), experienced, good-class Family Dispensing business, requires permanent position; Photography; excellent references; town or seaside. 97/27, Office of this Paper.

COMPETENT, unqualified Assistant (male) requires position of trust; keen Salesman, Dispenser, Window-dresser; West-End experience; highest references; age 24; disengaged. C. Hulme, 5 St. John's Wood Terrace, N.W.8.

DISENGAGED March 9; qualified; experienced Locum Manager; experienced all round; excellent up-to-date credentials. "Pharmacist," The Pharmacy, Hockley, Essex. Permanent address: 29 Kenninghall Road, Clapton, E.5.

ELDERLY M.P.S., experienced Dispenser, knowledge Optician, desires engagement with Chemist-Optician; London or provinces. P.C.B. 29/31, Office of this Paper.

ELDERLY Pharmacist, of good reputation and wide experience, desires employment; managerial or otherwise; permanency preferred; trustworthy; references; remuneration moderate. Address "Pharmacist," 34 Urban Gardens, Wellington, Salop.

EXPERIENCED; qualified; 20 years' Dispensing, Retail and Photographic; capable; willing; disengaged. (Mr) Jamieson, 23 Sinclair Road, W.14.

EXPERIENCED Saleswoman; Drugs, Toilet and Perfumery disengaged. Miss Driffeld, 10 Norfolk Road, Tunbridge Wells, Kent.

F.S.M.C. (J.C.Q.O.), expert Refractionist (O. & S.) and Frame Fitter, desires position with Chemist-Optician; experienced in all branches of Pharmacy and Photography; tall, energetic, and courteous; undeniable references. Apply 98/4, Office of this Paper.

GENTLEMAN, M.P.S., middle-aged, to supervise, Locum or part time; recommended; moderate salary. "S.," 32 Steyn Gardens, Worthing.

IMMEDIATELY.—Experienced, all-round Assistant; unregistered; tall; capable taking charge; permanency or Locum Haigh, 23 Doughty Street, Holborn, W.C.1.

JUNIOR Assistant seeks situation with Dispensing experience to be obtained; had excellent training in Window-dressing and Salesmanship; any reasonable salary taken; smart, energetic, respectful; careful Dispenser. 97/290, Office of this Paper.

JUNIOR Assistant requires further good Dispensing experience; salary minor consideration; good education; Part I; smart appearance; careful Dispenser and tactful Salesman; guaranteed keen and energetic interest in business. 97/29, Office of this Paper.

JUNIOR seeks further experience; Part I; Midlands or farthest North preferred; can be free from February 28; used to general business. 182/483, Office of this Paper.

LADY Dispenser-Book-keeper (Hall); Doctors preferred; near Croydon or Suffolk; 11 years' experience. Cutbbert, Mendlesham Vicarage, Stowmarket, Suffolk.

LADY, young (Hall), requires post; rather deaf; last post 5 years' Dispensing. "L. M.," 41 Augustine Street, Taunton.

LOCUM; disengaged; experienced; capable; obliging worker; any period, distance, position; references. Terms, "Chemicus," 56 Rudloe Road, Clapham Park, S.W.12.

LOCUM or permanency required by M.P.S., lady (24); London. "Pharmacist," c/o Wilson, 42 George Street, W.1.

LOCUM, relief, Manager; "not registered"; 20 years' experience; Dispensing, Stock, Counter, Salesman, Prescriber. "G.," 130 Scott-Ellis Gardens, N.W.8.

LOCUM or permanency; unqualified; conscientious worker; 30 years' experience, Counter, Dispensing, Stock, Prescribing. Bagshaw, Park Square, Newport, Mon.

LOCUM; qualified; young; energetic and capable; excellent references; free during April. 97/13, Office of this Paper.

MANAGER; qualified; 28; 11 years' all-round experience; keen; capable; married. Thomas, 12 Groll Road, Godresgraig, Swansea.

MANAGER, qualified, requires permanency; Dorset, Devon or Cornwall; disengaged short notice. P.C.B. 29/28, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

P.S. requires permanency; Assistant or Manager; good experience, Retail, N.H.I.; London preferred. 64 Falmouth Road, Newington, S.E.1.

P.S.—LOCUM, relief, or part time; London district preferred; absolutely trustworthy; middle-aged; recommended by leading wholesale houses. Jones, 70 Lee Road, Heath, S.E.3.

P.S., F.S.M.C. (and Supplemental), 24, Square trained, requires situation as Manager or Assistant; all-round experience; good references. 98/23, Office of this Paper.

PERMANENCY or Locum required by qualified Pharmacist, thoroughly experienced in London management; careful worker, good Stock-keeper and Window-dresser; excellent references, S.W. preferred, but not essential; free now. "Phenol," 22, Office of this Paper.

QUALIFIED man, 37, single, desires post as Manager shortly; London preferred; good London experience. P.C.B. 28/4, Office of this Paper.

QUALIFIED, 22, requires West-End Dispensing experience; at liberty. "E. P. C.," 183 Kingston Road, Wimbledon, W.19. Phone: Wimbledon 5752.

QUALIFIED lady, 25, requires post; good experience; excellent references; Manchester district preferred. "Miss J.," 74 Chester Road, Stretford, Manchester.

QUALIFIED, 27; Counter, Dispensing and Photographic experience. Seaton, 138 Murray Road, Rugby.

QUALIFIED, 28, requires permanency anywhere; excellent experience all branches. Terms, "Chemist," Beechwood, Wingerford Road, St. Annes-on-Sea.

QUALIFIED lady requires whole or part time; moderate salary; excellent testimonials and experience. "Chemist," 60 Belsize Road, N.W.6.

QUALIFIED, 31, tall, single, 17 years' experience in all branches, experienced Manager, provincial and Colonial, as Salesman and Display work, desires permanency, anywhere. Dwyer, 239 Stapleton Road, Bristol.

QUALIFIED Locum or permanency; Branch Manager; thoroughly competent; moderate salary; disengaged. F. H. H., 52 South Side, Clapham Common, S.W.4.

QUALIFIED, 22, desires post as Assistant or Branch Manager; 6 years' experience all branches; at liberty March 2. Write "Chemist," 24 Windermere Road, Barnsley, Yorks.

SURGICAL Appliance Fitter (male) seeks change; capable fitter of all types of surgical and orthopedic appliances. D/10, Office of this Paper.

UNQUALIFIED; age 38; disengaged; 22 years' London experience; working-class trade; Window-dressing, Buying, Prescribing; reliable Drug Store Manager; London or provinces. "L.," 10 May Cottage, Western Road, Lymington, Hampshire.

UNQUALIFIED, 26, 5 ft. 10 in., good appearance, desires situation; capable; experienced; excellent Salesman and Window-dresser; 10 years position of trust. "Rhel," 9 Forest Road, Cheshunt, Herts.

UNQUALIFIED Dispensing and Counter; good references; age 22 years; disengaged; tall. M. A. Brown, "St. Ives," High Street, Wivenhoe, Essex.

UNQUALIFIED Assistant seeks position, temporary, permanent or part-time; excellent experience, Dispensing, Counter work and Window-dressing; smart; energetic; good references. 97/291, Office of this Paper.

YOUNG lady seeks position; Window-dresser and Counter Assistant; London; excellent reference. Howitt, 7 Palmerston Road, Forest Gate.

WHOLESALE.

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.—A YOUNG M.P.S., with valuable connection among Medical Profession and Retail trade, now working London and Southern Counties for well-known house, desires change; can supply evidence of successful sales representation and highest references. Any British house interested in new business please write c/o 89/11, Office of this Paper.

CHEMIST-PERFUMER, M.P.S., skilled blender of Concentrated Essences and Perfumes, experienced manufacturer of Toilets, etc., with extensive knowledge of Essential Oils and Synthetic Chemicals, desires suitable situation in or near London. Full details upon interview. 96/7, Office of this Paper.

GENTLEMAN, varied travelling experience, wishes to represent Toilet House in West of England. 98/37, Office of this Paper.

HAVE you a vacancy? I am twenty-six, with sound Retail experience, and wish to obtain post as Representative. For a short time I worked London for firm of Cosmetic Manufacturers. If you can offer any prospects, shall be pleased to attend interview by appointment. "W.," 32 Calthorpe Street, W.C.1.

LANCASHIRE REPRESENTATION.—A young, healthy, energetic Salesman is open to represent any firm over or in any part of the country; experience in calling on Chemists and some Grocers over biggest part of Lancashire; bare commission not entertained. 97/37, Office of this Paper.

LADY, B.Sc., 6 years' Research in Organic Chemistry, good French and German, some experience in Patent work, Shorthand and Typing, seeks post in Chemical, Patent Agent, or similar firm. Apply 86/2, Office of this Paper.

MALE Clerk, age 38, seeks situation in Drug trade; 14 years' experience with Manchester firm of Wholesale Chemists. 97/3, Office of this Paper.

MEDICAL man desires any appointment for which he might be suitable with Manufacturing Chemists and Druggists. P.C.B. 29/16, Office of this Paper.

MEDICAL Representative (elderly), experienced introducing new remedies, desires engagement; territory or roving; good personality. Callis, 53 Oxford Street, Liverpool.

M.P.S., experienced Representative, with sound Chemists' connection in Warwickshire, Gloucestershire, Worcestershire, Herefordshire, Oxfordshire, would be glad to hear from house of repute desiring representation in above territory; highest references. 95/27, Office of this Paper.

M.P.S., 25, Public School, 7 years' experience, desires responsible post with Wholesale House (indoor) or as Representative; excellent references; good knowledge Yorkshire, Midlands, Eastern Counties. 98/18, Office of this Paper.

PHARMACIST, three years in manufacture with America's foremost laboratories, eight years Travelling-Salesman and Medical Propagandist, London House, open for engagement; will invest capital. P.C.B. 29/30, Office of this Paper.

PHARMACIST; 5½ years' experience with well-known Manufacturing House, besides Retail, desires position of responsibility; Wholesale or Retail; Midlands preferred, but not essential; keen, hard worker, trustworthy and with undeniable references. Apply "M.P.S.," 71 Highfield Road, Dudley.

QUALIFIED Chemist, age 32, desires to represent house of repute; previous experience of the road. 96/9, Office of this Paper.

REPRESENTATIVE; whole time; 25 years' connection, Kent to Cornwall; 10 years' reference; disengaged. 96/19, Office of this Paper.

REPRESENTATIVE, Medical, Drugs, Specialities, requires birth; highest credentials; wide experience. "Beta," 60 Florence Road, Wimbledon, S.W.19.

REPRESENTATIVE, with good personal connection among R Doctors and Chemists in London and Suburbs, wishes to bring his business along to Wholesale Drug House of repute; present firm closing down. P.C.B. 29/32, Office of this Paper.

TRAVELLER, exceptional experience, desires change; 6 years' noted distributing house; Wholesale and Retail, Stores, etc., throughout Yorkshire, Durham, Northumberland, Notts and Lincolnshire; seeks house of repute on part expenses and commission; highest references and excellent personal connection. "Hedley," 96/24, Office of this Paper.

TRAVELLER, at present working Midlands with Chemists' Sundries, wishes to represent established advertised firm; London territory; salary and commission. 94/20, Office of this Paper.

YOUNG man, 26, 6 years' Retail experience, seeks position in Wholesale with view to Representation; some travelling experience; excellent references; now in London; could attend interview by appointment. P.C.B. 30/6, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

AUSTRALIA, New Zealand, South Africa.—Energetic, Qualified Chemist, 25, desires position with Wholesale House; Retail considered. 98/180, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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